EPIGRAPHIA INDICA

Vol. XVII, 1923-24.



PUBLISHED BY
THE DIRECTOR GENERAL
ARCHAEOLOGICAL SURVEY OF INDIA
JANPATH, NEW DELHI-110011
1983

That close relationship must have existed between Cocomandel and the Far East during the earlier centuries of the Christian era is pietty certain. The part played by Tamrahpti or Tāmlūk as an important port in those days for the sca-horne trade between India and the Archipelago will similarly associate Bengal with the I'm Last Sailendras were staunch Buddhists to whom all the magnificent Buddhist buildings which we find in Central Java, like the one which probably contained the Tara image mentioned in the Chandi-Kalasan inscriptions spoken of above, one then origin. Nos, the question is whether they were emigrants from India or were indigenous people of Java-Sumatra, who embraced Buddhism in preference to Hinduism. The Yapa inscriptions of King Mülavarmman from Koeter or East Borneo or other early epigraphual records, which have been brought to light from Champa, Cambodia or Indo-China by eminent I'reach or Dutch savants, would show that India has had a considerable share in the colonization of The Yupa macriptions, as Dr. Vogel has already pointed out in his very learned brochure,1 inform us that the erection of the sacrificial posts on which they are engraved was due to the twice-born priests or Brahmans, who had carried their ancient civilization and religion to Borneo, as well as, to Java and Sumatra and that on these priests King Mülavarmman conferred rich grants of gold and land; a fact showing that as early as about 400 A D. high caste Brahmans or Vipias migrated to the Far East and settled there. Fa-Ilian found Brahmans settled in Ye-poti (Java or perhaps Sumatra) Sumatran civilization and culture seem to be of Rindu origin. Sumatra was probably the first of all the Archipelago to receive emigrants from India? The names like Coliva, Pandiya, Meliyala, by which some of the tribes that have settled in West Sumatra are known, and the fact that emigrants from India are designated by the term Këling or Kling, which is clearly derived from Kalinga, would show that Southern India, sucluding the Telagu country, had ample share in the colonization of the island or the Fur East, as Dr Vogel has already stated in his paper.3 The matrimonial alliance mentioned in our Nalanda charter, which the father of Balaputradica had with a mighty king of the Lunar race, would, perhaps, lead us to trace the origin of the Sailondras of Java-Sumatra to India. If a conjecture can be hazarded, these Suilcudras were emigrants from Kalinga or say Southern India I am not aware if the term Sailendra was ever applied to any of the dynastics which ruled in the south! or any other part of India It will be going too far to connect it with the Sailavamsas or the Sailodbhavas or other dynastics like the Silahara laving somewhat similar appellations It may be pointed out however, that the name of Malayaman, which is an exact Tamil rendering of the Sanskrit word Sailendra, meaning 'the lord of mountains', 15 to be met with in some of the inscriptions discovered in the South Arcot and Salem districts of the Madras Presidency where it is applied to some chieftains, who flourished about the 10th century A D Tamil literature, however, knows of the Malaimans, who might be attributed to the 7th and 8th centuries A D These chieftains were called Miladauyar or the rulers of Miladu, a contracted form of Malaiya-nadu or hill-country, and they claimed

¹ The Kupa inscriptions of King Mulavarman from Koeter (East Borneo), p 202

Encyclopædia Britannica, Vol XXVI, p 74 It may be incidentally pointed out that the statement made here in the Encyclopædia to the effect that Sumatra was called the first Java was caused by a wrong reading, as I learn from Prof Krom througa Dr. J. Ph Vogel, and requires correction

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The late Mr Venkayya (4 8 R., 1911-12, p 175) was inclined to connect them with some part of Orisa apparently on account of the similarity of names like Sailavamia and Sailendravamia, pp 42 ff. For Sailavamia, see Ep Ind., Vol IX, p 283 and J B A S, Vol LXXIII (1904, p. 2 282 f)

^{*} Ep. Ind., Vol. VI, p 42. * Ibid, Vol XI, p 282.

connection with the Chedi family? It is also noteworthy that sometimes their names end in From the records noticed above we find that the names of the Sarlendras of Java-Sumatra or Śrīvijava ended in varmman 3 The name of the Śailendia ruler given in the Nalanda plate on the other hand ends in deva This looks rather strange. The name Balaputra riself, signifying 'young son' is curious. This cuding of deva, however, occurs only in the prose and formal portion but not in the other or metrical portion, which describes and enlogises these Sailendias This would go to suggest that the suffix was left out because the metre did not require it, or possibly because it did not form an integral part of the name and would have been replaced by varmman, a general suffix or surname of the ruling caste The name, however, is pure Sanskit as is the name of Tara the mother of Balaputiadeva, or Dharmasetu, her father, and would point to emigration from India Had the names of the two ancestors of Balaputradeva, that is to say, his father and grandfather, been given, we could be definite in the matter, for, if these names were un-Indian, as in the case of Kundinga, his son Asvavaiman and grandson Mülavaiman of Borneo, we could conclude that the Sanskiit names must have been taken after conversion to Hinduism, or rather Buddhism But in none of the names of the Sailendras do we find any foreign sound at all, suggesting that they were the na ives of the islands originally and came into the fold of Buddhism afterwards.

The names of the Päla kings and other personages mentioned in the introductory portion of this grant have been dealt with by Kielhorn or other scholars in connection with the contents of the Mungir copper-plate inscription. So I need not notice them here. But, besides them and the Sailöndras, our record speaks of two more persons and they require special mention. One of them is Dharmasētu whom the inscription describes as a scion of the Lunar race and the father of Bālaputradēva's mother, namely, Tālā. To our regret it does not supply any other particular regarding him and it is hardly possible to identify him or to say

It is interesting to note that the later members of the Malauanian family, who figure in numerous stone inscriptions, call themselves invariably Chēdiyarāyas (Cledirajas) and they are mostly subordinates of the Chōlas of the 10th to the 13th certuics A D. The appellation Chēdiyarāyan, assumed by almost all the chiefs, if it is not a mere accident, as it could not be, must indicate that they were the rulers of the Chēdi country. This fact taken with the names like Datta would make one infor a colonisation at some remote past of a branch of the line of Chēdi Kings, in the South Arcot district, where we find them."

¹ Mr K V Sabrahmanya Ayyar, to whom I am indebted for this information, has kindly given me the following note on the Malayamars —

[&]quot;Ancient Tamil works mention the names of a number of Malayaman chiefs, who might be attributed to the 7th and 8th centuries A D Some of these are —(1) **Malayaman Tirumundikkan, (2) **Malayaman Śālya-Ēnādi Tirukannan, (3) **Valādar-Kōmān Meypporul-Aāyaņūr and Narasinga-Munnyarayar of Tirumunanppādi Their capital was Trukoilur, the head quarters of a taluk in the South Arcot district and a railway-station in the Kātpādi-Viļappuram section of the South Indian Railway It is said to have been situated within the Chēdi country

The Malayaman chiefs appear to have been rendering help to one or the other of the principal powers of the South, viz, the Chūia, Chōla, Pāndya and the Pallava. Naraśingamunaiyaraiyar was a contemporary of the Śaiva saint Sundara-Vūrti-Nayanār of the 8th century A D he is counted as one of the canonised 63 Śaiva devotees of the Tanul country. In the account given of No 3, in the Tanul hagiology, Periyapuiānam figures a Tattan, whose name may be regarded as a variant of Datta. Besides, one of the poems of the Tanul anthology, Pattuppātļu was composed in honour of a certain "Ārya King Piragadattan (Bhṛṇga-Datta)". It may be noted that the Malaiyamān chiefs beloi ged to the Bhṛṇgu race as is evidenced by their inscriptions Epigrai hical reference to Narasimhamunaiyaraijai is found in the Tanjore inscriptions of the Chola King Rājarāja I (A D. 985 1013). In an early stone record of Rājakēssrivarinan found at Tirunāgēsvaram near Kunibakonam, of about the 9th century A D mention is made of Milādudaiyar-palli

² E Hultzsch, Ep Ind, Vol VII, pp 185 and 145

^{*}Dr. Vogel in the aforesaid publication (page 194) remarks — "Considering that among the dynasties of Indea proper there is a great variety of such royal surnames, as āditya, gupta, chandry, dēvapala, rāta, vardhana simha, and sēna, the a'most universal employment of names in rarmman in the fir fuel a certainly very remarkable." The instance of our Balaputradēva will furnish an exception

That close relationship must have existed between Coromandel and the Far East during the earlier centuries of the Christian era is pretty certain. The part played by Tamralipti or Tāmlūk as an important port in those days for the sea-borne trade between India and the Archipelago will similarly associate Bengal with the Far East Sailendras were staunch Buddhists to whom all the magnificent Buddhist buildings which we find in Central Java, like the one which probably contained the Tara image mentioned in the Chandi-Kalasan inscriptions spoken of above, owe their origin. Now, the question is whether they were emigrants from India or were indigenous people of Java-Sumatra. who embraced Buddhism in preference to Hinduism The Yupa inscriptions of King Mülavarmman from Koetes or East Borneo or other early epigraphical records, which have been brought to light from Champa, Cambodia or Indo-China by eminent French or Dutch savants, would show that India has had a considerable share in the colonization of The Yupa inscriptions, as Dr. Vogel has already pointed out in his the Far East very learned brochure,1 inform us that the erection of the sacrificial posts on which they are engraved was due to the twice-born priests or Brahmans, who had carried their ancient civilization and religion to Borneo, as well as, to Java and Sumatra and that on these priests King Milavarmman conferred rich grants of gold and land; a fact showing that as early as about 400 A. D. high caste Brahmans or Vapius migrated to the Far East and settled there. Fa-Hian found Brahmans settled in Ye-poti (Jaya or perhaps Sumatra) Sumatran civilization and culture seem to be of Hindu origin. Sumaira was probably the first of all the Archipelago to receive emigrants from India? The names like Coliya, Pandiya, Mēliyala, by which some of the tribes that have settled in West Sumatra are known, and the fact that emigrants from India are designated by the term Keling or Kling, which is clearly derived from Kalinga, would show that Southern India, nuclading the Telugu country, had ample share in the colonization of the island or the Far East, as Dr Vogel has already stated in his paper.3 The matrimonial alliance mentioned in our Nalanda charter, which the father of Balaputradeva had with a mighty king of the Lunar race, would, perhaps, lead us to trace the origin of the Sailondras of Java-Sumatra to India If a conjecture can be hazarded, these Sailondras were emigrants from Kalınga or say Sonthern India. I am not aware if the term Éailendra was ever applied to any of the dynasties which ruled in the souths or any other part of India It will be going too far to connect it with the Sailavamsas or the Šailodbhavas or other dynasties like the Šilāhāra having somewhat similar appellations It may be pointed out however, that the name of Malaiyaman, which is an exact Tamil rendering of the Sanskrit word Sailendra, meaning 'the load of mountains', is to be met with in some of the inscriptions discovered in the South Arcot and Salem districts of the Madras Presidency where it is applied to some chieftains, who flourished about the 10th century A D Tamil literature, however, knows of the Malaimans, who might be attributed to the 7th and 8th centuries A D. These chieftains were called Miladudaiyar or the rulers of Miladu, a contracted form of Malanya-nadu or hill-country, and they claimed

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[&]quot;Ancient Tamil works mention the names of a number of Malaivaman chiefs, who might be attributed to the 7th and 8th centuries A D Somo of these are —(1) Walaivaman Trumudikkäri, (2) Malaiyaman Śchya-Enādi Tirukannan, (3) Malādar-Kōmān Meypporul-Nāyanār and Narasinga-Manaiyaraiyar of Tirumunaippādi Their capital was Tirukoilur, the head-quisters of a laluk in the South Arcot district and a railway-station in the Kātpādi-Vilui puram section of the South Indian Railway It is said to have been situated within the Chēdi country

The Malniyaman chiefs appear to have been rendering help to one or the other of the principal powers of the South, viz, the Chö a, Chōla, Pāndya and the Pallava Narasingamunaiyaraiyar was a contemporary of the Salva saint Sundara-Vūrti-Nayanār of the 8th century A D he is counted as one of the canonised 63 Salva devotees of the Tamil country. In the account given of No 3, in the Tamil hagiology, Persyapurānam figures a Tattan, whose name may be regarded as a variant of Datta Besides, one of the poems of the Tamil authology, Pattuppāttu was composed in honour of a cortain "Ārya King Piragadattan (Bhriga-Datta)". It may be noted that the Malniyamān chiefs belonged to the Bhrigu race as is evidenced by their inscriptions. Epigrai lucal reference to Narasimhamunaiyaraiyai is found in the Tanjore inscriptions of the Chola King Rājarāja I (A D 985 1013). In an early stone record of Rājakēsarivarinan found at Tirunāgūšvaram near Kumbakonam, of about the 9th century A D mention is made of Milādudusyar-paļli

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whether he was an Indian king or some ruler in the Far East The name whether it is read as Dharma or Varma-setu appears to be new. The other interesting name occurring in the document is that of Balavarmman the ruler of Vyaghratati-mandala, who acted as dutaka on behalf of the Magadhan king. As to why he was selected or what special connection he had with the ruler of such a remote island as Sumatra or Java, and whether he had been there or known persocally to that king our inscription makes no mention. Apparently, there was no direct political relationship between the two; for, we know from the Khalimpurl plate of Dharmapaladeva that the Vyaghratatimandala lay within the bhukti of Pundravardhana, which was under the sway of the Pala king Dharmapala and, evidently, of Devapaladeva after him. Pundravardhana is the same as Paundravardhana-Pundra and Paundra being synonymous-which is the modern Rajshahi district of Bengal?. The use of the word adhipati would indicate that in this instance at least the term mandala connotes a larger area than vishaya, which in the majority of cases seems to include a mandalas. During the reign of Dēvapāladēva, Vyāghratatī was governed by a distinct ruler called Balavarmman. The way in which he is pressed in this epigraph, as the right arm of the Emperor. would show that he had a high rank even though he was one of the feudatories of Devapaladeva. As, however, our plate gives no genealogy or particulars about him his personality is very vacue. A few homonymoust rulers are known to have flourished about that time but they appear to be quite different personages and even their dates will not agree with that of this plate. It looks curious that though the charter mentions the dutaka of the King of Magadha yet it leaves the ambassador or ambassadors of the Javanese King unnamed altogether.

The vague manner in which the inscription describes the rulers of the Far East or Sumatra-Java and their relative king of the lunar race would show that its author did not know much of them. He knew of Balaputradeva and his mother Tara. The latter he compared to the goddess of that name It is not improbable that the grant registered in the epigraph was made chiefly at her instance

Our plate mentions reveral places calling for remarks Out of these, I have already noticed three, namely, Suvaranadripa, Yavabhūmi, and Vyūghrataji Of the remaining ones Ralandā is the most important. The way, in which this record speaks of it, would show that it continued to be as important a centre of Buddhist lore as it was during the time of Hiuen Tsang's visit. The spelling of the name given in this document is Nälandā which is the terrect way of writing it. The same spelling is given in a votive inscription on the image of

¹ Ep. Ind., Vol. IV, pp 243 ff. J. B R A. S, LXIII (1894), pp. 39 ff.

^{*} Smith Early Hestory of India, p. 378. As has already been stated by Cunningham (A S R., Vol. XV, pp. 112 II.) Käntära-is another name of Pundra or Paundra, e.e., sugarcane, and the Mahākāntāra of the Allahabad inscription of Samudragupta; the Great, was probably an older name of this province which, about the middle of the fourth century of the Christian era, was governed by a King Vyāghra. Thus it does not appear to be improbable that the district of Vyāghratafī or the tiger's precipios—unless of course vyāghra is taken in the sense of castor oil in which case the word Vyaghratafī would be the slopé marked or overgrown with castor plants,—was named after this tiger king.

This would rather show that no mistake was made in the text of the Khalimpur grant and that Kielhorn's statement in the Ep Ind., Vol IV, p 258, footnote 3 that it was, will be obviated

eopper-plate (Br. A. F. Hoernie, J. B. A. S. LXVI, pp. 285 if.) and another of Kärüsha or rather Brihadgriha (Kielborn, Ind. Ant. Vol. XX, pp. 123 ff). On paleographic grounds the former of the two has been assigned to the last quarter of the 10th century or say nearly one century later than the date of Devapaladeva. The other is too little known to admit of identification. The third ruler of the name, who will synchronise with our document, was the father of Avantivarman II, who was the feudatory of Mahendrapala of Kanauj (cir., 590 A. D.), was the ruler of Kathiawar, or Saurishira and a feudatory of the formidable rival of the monarch of Bengul.

Sankarshana which was dug out of the same site and the newly discovered statue of Tārā. It again occurs not only in some Jaina writings but such an old work as the Dighanikāya, However, it seems to be noteworthy that none of these works called Nālanda a university but only a presperous town though Hinen Tsang describes it as if it were a University. The way in which it is described in our plate would show that it was really a centre of Buddhist learning

As to the remaining place-names mentioned in this document, I think, Srīnagara or Srīnagara-bhukti must be identified with modern Patna, which as a district, includes Rājagriha (Rājar) and, as a division or commissionership, comprises the district of Gayā, even now. It is true that in the Khalimpur grant of Dharmapāladēva, which has been referred to above, the name given for the city is Pāṭaliputra and not Srīnagara or Nagara, still, I think, there were two disignations, the one, i.z., Pāṭaliputra, which meant the whole town and the other, i.z., Śrīnagara, the main part of it, like the Bankipore of to-day. Nagara means the clief town generally, but in this case it meant the town, the prefix Śrī implying prosperity or wealth of the town. In other words Pāṭaliputra was the pattana³ and the seat of Government, especially in earlier days during the supremacy of the Mauryas or the Imperial Guptas,⁴ lay there, and Śrīnagara was its principal portion where the office of the bhukti or division was situated. One was concerned with the whole government but the other only with eight hundred⁵ villages coming in its jurisdiction or bhukti. Thus Śrīnagara must have been a part of the whole which was termed Pāṭaliputra ⁶ That, apparently, is the reason why the latter and not the former appellation of the town is to be met with in literature.

That Bajagriha and Gaya are respectively the Rajgir and Gaya of to-day requires no demonstration. The latter is a district still, though the former has now dwindled into a luined town of the Bihar subdivision of Patna.

Regarding the villages which formed the object of the giant or endowment registered in the charter, we are told that Nandivanāka and Manivātaka were situated in the Ajapura-naya subdivision, Natikā in the Pilipinkā, and Hastigrāma in the Achalā-naya or subdivision of the Rājagriha vishaya or district, and that Pālāmaka was situated in the Kumudasātra vīthī, a subdivision of the Gayā district. If similarity of sound can be depended on, I would propose the following identifications to which proximity of Nālandā will lend a great support. The Ajapura 'naya' or subdivision of the inscription may possibly be represented by the Ajaipur? village in the Ajai Hisse Chahāram Mauzā in the Bihār Thānā and the two villages Nandivanāka and Mapivāṭaka, granted in it, would be the Nadiune or Naunvan and Mapianwan villages of these days, which are included in the Bihār Thānā. Pilipinkā I am inclined to identify with the Pilkhi or Pilkee Mauza and the Naṭikā village with the Nai Pokhār of to-day, both lying in the Silāō Thānā. Though I am unable to offer any identification for the ancient Achalā yet, I fancy, the village Hasti or Hastigiāma of the grant might be the Hethoa Bīghā village of the Bihār Thānā if not the Hathi Tolā of the Maner Police subdivision. The old village directory⁸ of the Gayā district available to me does not, apparently, give any name

¹ See my Annual Report of the Central Circle, (Patna), for 1921, p. 5 and J B B O. R S, Vol X, pp 80 ff

² Vol. I pp. 1 & 211-12

s Cf ' प्रश्तानम् । Therata quoted in the Sabdakalpadruma under Nagara.

^{*} Cf. प्रतनं यत्ने राजधानी खिता and नगरसष्टमतग्रामसध्ये तद्व्यवद्वारक्षानस् , Yasödhara in bis Jayama sgalā on the Kamasūtra of Vātsyāyana (N. S. Edition), p. 44

^{*} Even in the Khalimpur grant the frime juyaskandhātāra, or 'royal camp or headquarters' lay at Lataliputra. For the meaning of this expression of. V Smith, Early History of India, p 398 and footnote 8.

^{*} Similarly, I would identify the nagara-bhukts of the legend on the seal, which, Dr Spooner discovered during his explorations of the site (see his A. P. R. (E C) for 1916-17, p 48) with the Sinagara-bhukts of this decument

⁷ Fillage Directory of the Presidency of Bengal, Vol. XXVI (Patna District)

^{*} Village Directory of the Presidency of Bengal, Vol. XXVII (Gnya District).

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9

हप्रान्ते सित क्रितनां सुराज्ञि यिसन् श्रेडेयाः प्रयुसगरादयोप्यभूवन् [॥२॥]
विजित्य येना जन्नधेर्वसन्धरास्विमीचिता

7 सीवपरिग्रहा इति। सवाप्यसुद्धाष्यविलोचनान्पुनर्वनेषु व(ब)न्यून्ददृग्रमीतङ्गलाः ॥[१॥*] चलत्ख-नन्तेषु व(ब)लेषु यस्य विश्वकारा-

या निचितं रजोभि: ॥¹ पादप्रचारच्यममन्तरिच्चम्विच्छप्नमानां सुचिरम्व(म्ब)भूव ॥[४॥*] शास्त्रार्थभाजा चलतोतुशास्य वर्ग्णाग्पतिष्ठापय-

ता खधरमें[1*] श्रीधर्मपालेन स्रतेन सीभूत्सर्गस्थितानामन्त्रणः पितृणाम् ॥[५॥*] प्रचलै-रिव जड़मैर्यदीयैविंचलिइहिंरदैः कदध्यैमाना ।

10 निरुपप्तवसम्ब(म्ब)रं प्रवेदे श्ररणं रेखनिमेन भूतधात्रो ॥[६॥*] नेदारे विधिनोपशुक्तपयसां गंगासमेते म्व(म्बु)धी । गोकण्णीदिषु चाप्यनुष्टि-

11 तवतान्तीर्थेषु धम्यीः क्रियाः [।*]
भ्रत्यानां सुखमेव यस्य सक्तलानुहृत्य दुष्टानिमान्लीकान्साधयती[ऽ*]नुषङ्गजनिता
सिद्धिः परत्रा-

12 प्यभूत् ॥[७॥*]
⁵तैस्तैर्दिग्वनयावसानसमये संप्रेषितानां परै: सत्नारैरपनीय खेदमखिलं खां खां गतानां सुवम् [।*] क्वत्यं भावयतां

13 यदीयसुचितं प्रीत्या चपाणामभूत् सोत्वण्डं मृदयं दिवश्युतवतां जातिस्मराणामिव ॥[८॥*] श्रीपरव(ब)सस्य दुचितुः चितिपतिना रा-

14 प्रमूट°तिस्तस्य। रण्णादेव्याः पाणिर्जग्रहे ग्रहमेधिना तेन ॥[८॥*] धततत्तरियं ससीः साचात्चितिनु भरीरिणी । किमवनिपतेः सीर्त्तिमृन

¹ Two strokes in place of one.

² Symbol for A at the end of a pada is peculiar.

⁸ Kielhorn has समेताo.

⁴ This danda could be left out.

⁵ Kielhorn has तेर तेर which cannot be correct.

The way of writing the letter z is peculiar.

This dande could be left out.

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Page 108 -Inscription B -The missing second plate of this inscription has been discovered
                  Iyavela by Mr D B. Diskalkar, M.A., Curator, Watson Museum
                  Antiquities, Rajkot, and will shortly be published by him in this journal -
  " 108, f. n 2 — For upadmānīya read upadhmānīya.
    109, 1 10 -Dr. Sukthankar is not right in his guess, for the dūtaka of the grant as found
                  in the missing plate is Rudradhara. But the writer was Kikkaka, here
                  spelt Kıkaka -Ed
     109, f n 2.-- for Dhravasona read Dhravasona
     110, 1 3 - For Rotghamitra read Rotghamitra.
         1. 5 — For Āsvina read Āsvayuja
          Text 1. 7 -For -gitan read -gitan
                  8 — For achchhetta read achchhetta
                  9 -To =vvā, add the footnote 'Read =vā'.-Ed.
                11 -For Kikkakena read Kikkakena
          f n. 2 — For āgamı read āgāmı
       111, 1 3 -For '34' read '33'
              8.-For 'these two sets' read 'this set'.
             16 - For Tirunalur read Tirunalur.
                - For onallür read onalür
              " -For 'Sunepuhao-' read 'Sunaipuhao-
             17.—Insert after 'Nārāyanāmbikā', "or Nāranadēvi-auva"
             11 from the bottom -For Tirunalüi read Tirunalüi
                                   For -operumā-naliūr read operumā-nalūi
                                   For Sune<sup>o</sup> read Sunai<sup>o</sup>
              10
                            33
        22
                                   For Mēlmurī read Mēlemuri
        ,,
                            >>
                                   For Mala-nādu read Mala-nādu
               8
                                   Insert before 'villages', "hist three"
               7
                                   For Turuchehnappalli read Turuchehnapalli.
                            33
                                   Insert after 'twelve' the following "harraanas of food should
                                      be supplied, one"
                                    For lamps read lamp
                                    Insert after 'burned' "one"
                                    For garlands read garland.
                             22
            last line
                                    For 1,82 read 1,823
        112, 1
                   -Insert 'ıān-payır' after 'punsey'
                    For oppēruo read opperuo
                   -- Cancel (tarı-kadamaı)
                    For alukku° read olukku°
                  —For kattıgar-arasaram rend kathıqe-arasara
                    For patai-kānikhai read padai-kānike
               10 — For Pēro read Per
               11.—Omit the passage from Alukkuo to niranikam in 1 13
               13 -For Magamai read mahamai
               17 -For Kattıgar-arasaram read Kathıge-arasara and add in a foot-note
                      term does not indicate any tax on firewood as the anthor suggests but may
                      have to be connected with kattige-yara, a mace-bearer or in this case the
                      viliage servant who carries the staff of office with him - Ed j
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^{*[}The following numerous corrections on pp 111 to 117 have peen necessitated by the proof reing pus cu by the office in the belief that it had been revised by the author]

```
Page 112, 1 18,-For-kkanıkkaı read kanıke
            " 23 — For Tu uchchirāppalli read Tiruchchirāpalli
  11
            " 23 — For Tirunalūr read Tirunālūr
            .. 24 - For Šeranai read Šeianai and for enalläi mad enaläi
            " 24 —For Melmuri read Melemuri
            " 21 -For Mala-nādu icad Mala-nādu
            , 24 - For Sune read Sunai
            ., 26 -For Tiruchchirappalli read Tiruchchirapalli
            " 29 - For Mala-nādu read Mala nādu
        ,,
            " 33 -For Tunnalür read Tunnalür and weert after it, [-Tunnallür]
            " 33 —For Śeranai° read Śēranai°
            " 34 — Far oma-nallür read oma-nalür
   21
            " 35.—For Śunepuha" nad Śunaspuha"
   25
            Text, 1 1 -Remove the unnecessary extra bracket after नम्() and insert a hyphen at
  ,,
                     the end of the line
                   2 -For g read g
        19
   11
                   3 -For a read and cancel fort-note
        113
                  6 -For व्मद्रुधि read मन्धि
                  8 - Iror oux' read ougo
   43
               ,, 14 -For 'इतिहरि' real 'हारी हरि'
   22
                  23 —For °नमा त° read °नमात?
                   0 - For बद्धान reul ब्रह्मान.
      114, Text 1 29 - For मूत' read मूर्त and add in a footnote " (रं is the letter ju as
   22
                          generally transcribed in Nagari,-Ed ]"
   99
                 "31.—For विशे read विदय and correct into विशे
         ,,
                 " 34 -For बार्स भ्या मासी and correct into मामि
   25
                 ,, 36 —Insert after ृियी the letter 'द' and correct [राखीद मार्ग 'स्विविय.
                 ,, 37 -Carry the footnote number 14 to 'all of the preceding world
   91
                 " " — For तिदनलू° read तिदनलु° and correct into तिदनान्
                 ,, 38 -Correct in a foot-note ongrate into ongrate
                                                                      Insert space after East and
                           for 'and read out ou
                 ,, 34 --[mart " [ || 23* ] " after "धे and add a foot-note " read नवामिधे [क्लामिधे]
                        [This word which occurs in connection with Rijagambhira and Rijarija,
                        both in lines 36 and 38 f, has perhaps to be understood in the sense of the
                        Tamil वळनाडु, a territorial subdivision, as suggested also by its use below,
                        in 11. 52 and 56 f.—Ed ]"
                 ,, ,, —Insort as a foot-note on प्रस्तपदि —"[प्रस्तपदि posh ups stands for धामहनानपद
                         which is perhaps a Sauskritised form of Malinada -I'd ]"
         99
                 " "—Correct मुनिपुद्दननुरधा unto सुनेप्दनन्थों in a foot-note
          23
                  " "—Insert after suft "[|*]"
                  " 40 -Read श्रीरगराजगप्रि as one word
          33
          17
                  " 41 -- After " ]] " msort [24*]
                  n n —For स्वित्री real स्वीत्र and correct the same into स्थिदा ्ा•].
```

73

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Page 114, Text 1 42 -Insert a foot-note on Ww -" Read wa".
                "41-For नारायण read नारण
  72
                , 46 -For ute read tte and insert spaces after wand ?
                " "—For बगसाची read वनमाची
                , 47 — For तिन् ' read तिरि' and correct into तिन The letters दने को ought to be in []
        "
                   9 -Add at the end " [ Perhaps भक्ताद was meant-Ed ] "
            f n.
                  13 -For भिषकावेर्या read भिषे कावेर्या.
         "
                   14 -Cancel the hyphen at the end and insert [ | 22*]
         ••
                   15 -For सलक्वाया read सञ्चक्वाया
         "
              " 16 & 17 -[Perhaps metrical considerations would require some corrections like
         ,,
    27
                        योरंगराटसपर्यार्थं नारणान्वाभिधानत - Bd ]
                   25.—For चान्द्रक read चींद्रके
          22
             Text 1 51 -For Hy read Hy
       115.
    ••
                  "53 —Correct in a foot-note, ेहोभलि into 'होबळि
         "
                  ,, 54 - Correct तिर्मालूर unto तिर्माल्य
                  "55 —For नलू read नलु and correct into नल्
                  ., 56.—In 2803 put the nought in square brackets with an asterisk.
                  ", "—For °कार read °कारे
                   ,, " -For °वळ° read °वल°
                   "57.—For मुने° read मुने ° and correct in a foot-note °नखर into °नखर
                   ., 58 -For sur(;) read sur
                   .. 59 -Insert a space after me and add in a foot-note "[me perhaps stands
     33
                            for कण्ड १ c, मेल्कण्ड —Ed]"
                   .. 64 — For ची read भी and correct the whole into भोद्रहानीयोह in a foot-note
          52
                   " 67.—Carry foot-note No. 15 to the end of ugman.
                   "71 -Insert space after the first letter in the line and correct in a foot-note
                          माच° into आच°.
                      4-Omit at the end of the correction
                                                       "Read सेरनेवडपेरमानल्र as in the Sanskrit
                      6.—Change the foot-note thus
      71
                             portion in 1 37"
                      9 -For चान्दने read भोन्दते
                     14 -For पश read पश्च
           33
       11
                     15 -For होसर्वार read एन्ट्रया
          116, Text 1 75 -For 22 read 25 and for खटना read खाइना and correct mio खड्ना
                      76 -For परिवर्ष read परिवर्ष and correct into परि वर्ष
                    " 77 - For 23 read 26
           11
                      79 -For 24 read 27
            11
                     ., 80.—For दचा° read इता and correct inte इता?
            ,,
                     "82 —For out read out
            *>
                     " " -For 26 read 29
            31
                    ,, 83 -For 'lat' read 'lat 'and correct into 'far,'
                ٧v
                      67 -For laustabha read laustubha
                     10 12, 'ast centence -For 'Lakshmi read -Sii and for as read the
       33
```

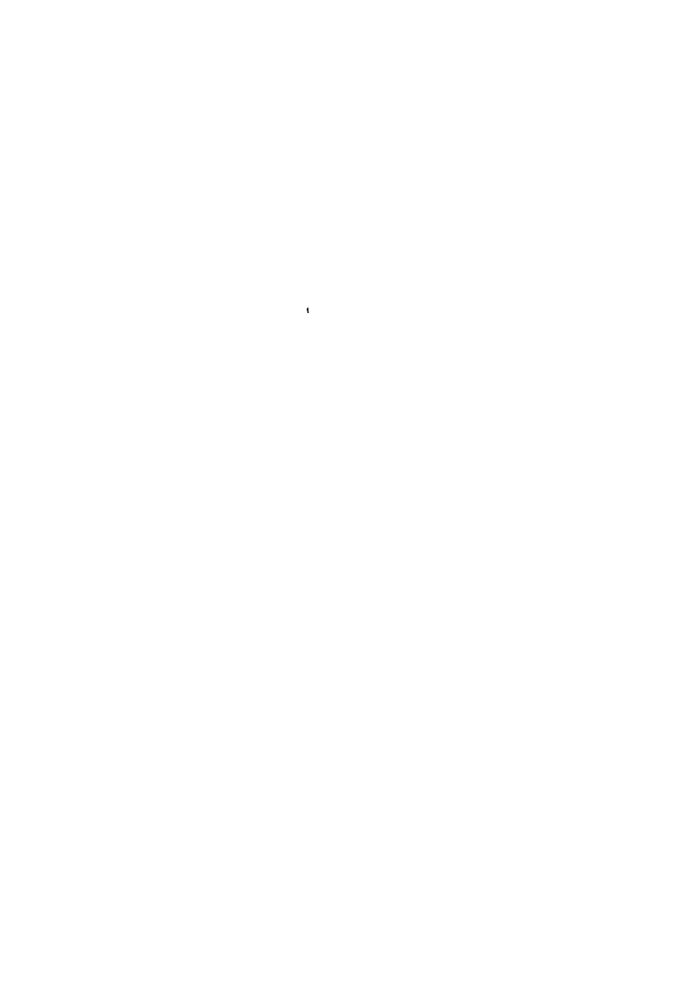
```
Page 115, line 3 from the bottom -For Sera - read Sera
                                  -For Sune read Sunar.
  77
          last line -For Monday read Sunday.
          f n 3 - Insert 'and' before इसाणि
              6 - Insert at before &
               7 — Insert दत्ताप before हारेग
               8 - Cancel पशरिण
      117, 1 3 -For Seianaibenda-° read Seranaiband i-°
          " 4 -For Trisnappalli read Tiruchchnapalli.
            6-Insert Sahyakanyā before Kāvērī and put the latter in round brackets and add
                  "in the Pravidjanapada 10, in the Mala-nadu district"
          para 2, 1 3 -Insert at the end of the line "sacred food, of one"
                ,, ,, 4 -For lamps read lamp and ensert 'one' after the comma
       11
                ,, ,, 4 -For garlands read garland
       73
                ., ,, 5 -For Natayana° rend Narana°
       33
                ,, ,, 5 -Insert after Pandamangalam "with its hamlets"
                ", 6 -For Sune' reid Sunai'
                ", " 11 -For Chirichiapalli read Tuuchchiiapalli.
                ., ,, 11 -- For Sune' read Sunai.
                ", " 12 —For Melamuri read Melemuri
                ., ,, 12 -Mala read Mala.
       ,,
                ,, ,, 17 -Cancel tankkadaman at the end of the line.
       **
                ", " 18 -For ālukumpāttam, read olukkuni pāttam
       ,,
                " " 18 —For verses 22-26 read verses 25-29
       ,,
       118, text ils 5 & 6 - I would add a hyphen at the end of 1, 5 and take mahodaya-
                  mahidharendra as one word, thus altering the sense
                                                                          The chief who is
                  described was a Sun on the Lord of mountains, viz, the great eminence of
                  the Kadamba family.—Ed.
      130, 1 40, for XIV read XV1.
            coll 6-7 for Söchuna read Söbhana
      189, ,, 29, for name read name
  31
      191, f n 3, for the letter व after य (१) read न after तृत
       ", ", ", 12, insert length after "y"
  91
      193, 1 22, for Töramāna reud Tölamāna
      104, para 5, 1 4, for Karnāta read Karnāta
                2, ,, 13, for Siddhaladevī read Siddaladevī
   77
                3, "2, for Kārttiga read Kāi ttika
                1, ,, 2, for Hastinavati-read Hastinavati-
      197, ,,
                3, ,, 1, for Duiga-Bhatta read Duiga-Bhatta.
          f. n. 4, jor 'g' read 'z'.
   28
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Page 198, text 1 12, for समम. road समम
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- ,, 2000, f n 8 for and read and, for see above, note 1 read see above, note 7.
- , 203, trans of v 9 for Udaiya- 1 cad Udaya-
- " 204 l. 8, for keie read kere.
- " , 1 21, delete who received.
- ., 291, 4th line from the bottom, insort the word "after" after "and" in brackets
 - 292, 1 5, for kkoliya read kholitya.
 - .. 293, 1 27, omit n of Kalabhran
 - " " f n 4, last bne for Sadaiyan read Sadaiyan
 - " 294, 1 35, insert after orator "thus making it clear that Mangalaraja Madhuratara is identical with Madavikalan Marangari mentioned in the previous paragraph".
 - ", 138, inseit after ceitain "Śuttakēśari-pPerumpanaikkāran l'he document was signed by", and after Perumbanaikkāran "who seems to be identical with the engraver Śuttakēśai-pPerumbanaikkāran"
 - " 295, 1 10, for Kadungōn read Kadungōn
 - ,, 1 22, for Maduratara read Madhuratara
 - " " 1 27, for grove read drove.
 - ", f n, for Epigraphia Indica read S I 1., Vol. III, Pt IV
 - ,, 296, 1 2, for inscriptions read inscription
 - " 297, 1 29, for Malava read Malava
 - " 1 33, for Kulumadai read Kurumadai
 - " , f. n 3, for o-Valanadu read o-valanadu.
 - , 308, 1 15, insert "(P)" after Kurumbunādu.
 - ", , 1 36, for Kulandevan read Kulandaivan
 - " 309, 1 6, for race read people and omit ottavar of Karavandapurattavar
 - ,, ,, trans of v 19, remove the brackets of (learned) and use roman type
 - " trans. of 1 152, for °-pPerumbanaikkāran read °-pPerumbanaikkāran,
 - " , f n l, for Pāndya read Pāndya
 - " 311, 1 11, omit 'made through an ambassador,'
 - ., , 1 17, for Rajagrīha read Rājagrīha.
 - ", ", para 2, 4th line from end, for Kalasan, read Kalasan.
 - , 312, 1 11, from end, for Prambanam read Prambanan
 - " 313, 1 6, for extending read governing
 - ., ,, l 6, from bottom, for a dūtaka or ambassador read dūtas or ambassadors
 - ., , f n 5, for Sailendras read Sailendras.
 - ,. 314, 1 7, for Kalasan read Kalasan
 - ,, 315, 1. 14, for Kundinga read Kundinga
 - " 317, l. 26, ensert -kaja after Pilipinkā
 - , 317, f. n 6, after 'document' at the end, add "That Nagara by itself was need as a synonym of Kusumapura or Pātaliputra is evidenced by the Dhartavitasumvāda of Isvaradatta (pp 3 f) published in the Chaturbhānī in 1922 by Mi M Ramakrishna Kavi, M A, Teacher's College, Rajahmundry

Page 320, text 1. 24, for 'समावामि read 'समावासिव'

- 321, f n. 2, for uparik, read uparika
- , 323, text 1. 57, for °तीएग्रं or read तीयौं गं , for भ्रम्क one should expect भ्रम्क or the poet might have used भ्रम्क as a derivative of भ्रम treating it as a stem like नीचक from नीच, and for or oread se.
- _ 324, f n 1, for Sakturead Saktu (twice)
- . 325 1 9, for -mahishydhihrita read -mahishyadhikrita.
- .. , 1 13. for Brahmanöttaras, road Brāhmaņöttaras
- ., , 1 14, for Chandalus rend Chandalas.
- , 323 1. 18, for -Hiranyagarbha- 1end -Hiranyagarbha-.
- " , 1 28 beginning, for gf read of
- .. 335, 1, 13, for Guddadi- read Guddadi.



EPIGRAPHIA INDICA

VOLUME XVII

No 1-GUDIMALLAM PLATES OF THE BANA KING VIKRAMADITYA II

By Professor E Hultzsch, Ph.D , Halle (SAALE)

These plates were found at Gudimallam in the Kālahasti Zamindāri, and were forwarded to Rao Bahadur H Krishna Sastri by Mr K Raghaviah of Kālahasti They have been acquired for the Government Central Museum, Madras

The copper-plates are five in number and have nine faces of writing, the outer side of the first plate being left blank. The plates are not raised into rims for the protection of the writing, which is, however, in good preservation. They measure $7\frac{1}{4}$ in length and $3\frac{1}{6}$ in breadth, and are strung on a copper ring, which measures about $2\frac{3}{4}$ in diameter, and the two ends of which are fixed in a circular seal. The hole through which the ring is passed was enlarged after the inscription had been already engraved. This led to the total or partial destruction of some letters, a few of which were subsequently engraved a second time below the ring-hole. The seal bears, in relief, the figure of a bull couchant, facing the proper right, and above it what looks like a lamp-stand and a crescent. The weight of the plates with ring and seal is $133 \ tolas$

The alphabet is old Grantha (Il 1-53) and old Tamil (I 53 f) In the Grantha portion the superscribed i is not always distinguished from i, nor the subscribed form of ri from that of r Final forms of m occur in lines 3, 7, 35, 48, 49, 53 In $-dh_{rik}$ (I 30), $ch\bar{e}t$ (I. 37), and $cu\bar{s}n$ (Il 26, 29, 47) the Virāma is expressed by a small dash at the right of the final consonant

The Grantha portion consists of Sanskrit prose (II 1, 14, 33, 37-47, 51-53) and of 22 verses in the Anushtubh and Aryā metres. Both the language and the metre of some of the Aryā verses are incorrect. In the footnotes on the text I have suggested a few possible emendations, but am unable to furmsh a fully satisfactory text and translation of the eight opening verses, which are addressed to Siva. The remainder of the inscription is quite intelligible, but the wording of it is not always correct. The compounds -nām-ākhya (1, 23), -ākhya-nāmaka (1, 35), and kidrig-vidha (1, 37) are tautological. In lines 37-39 the author violates the rules of composition by comparing words in the dative plural to nominatives singular, cf. Sāhityadarpana, Translation, p 301, 1. In line 50 the neuter yuga is used as a masculine, and in line 53 the neuter likhitam forms the predicate of the feminine prafastih (1, 52). The record ends with a short postscript in the Tamil language.

As regards orthography, au is expressed by \bar{o} in $=s\bar{o}$ (1 10) and $m\bar{o}li$ (1 12) The group ksh is replaced throughout by tsh, dm by tm in patma (11 4, 37), dh by th in narāthipa (1 24), and perhaps ddh by tth in lines 5 10, 11. The lingual l is used in gala (1. 2) The

rules of Sandhi are neglected in Nandwarmmä iti (1 19), nriparāt=bhuja- and prādāt-grāman= (1 34), chēt (1 37), and bhyah (11 39, 42 (twice), 52) In -nipunahsh=shadgunē (1 30) and in four other cases (11 38, 40, 41 (twice)) final Visarga is expressed both by its original form and by a sibilant Consonants are doubled throughout after r, and before y and r in -maddhyē (1 2), -widdhyud- (1 3), -widdrā(ddru)ma- (1 3), -māttras= (1 5), Ruddrō (1 9), Girittrēna (1 33), and pittrē (1 35), but not in traividya (1 41), tsha(ksha)tra (1 23), putrēna (1 32), vēda-traya (1 39), and vikrama (passim) The superscribed r of double consonants is often omitted through carelessness

After lengthy invocations of Siva, which have already been noticed in the preceding remarks the inscription introduces the demon king Bali (v 9), who is stated to have been the son of Virochana, and to have granted the earth at a sacrifice to Krishna (i e to Vishnu in his incarnation as a dwarf). One of Bali's descendants was king Nandivarman (v 10 f). His son was Vijayāditya (v 12), his son Malla-dēva of the Bāna race (v 13), his son Jayamēru (v 14) alias Vikramāditya (v 15), his son Vijayāditya (vv 16, 20, and 1 44) alias Prabhumēru (vv 17, 21), and his son Vikramāditya (v 20 and 1 44) or Vikramādityavarman (v 18)

According to verse 19 a king named Nanda¹ (who may be meant for the Nandivai man of verse 10 f) had granted to Brāhmanas the village called Viprapītha With the sanction of his father (v 20 and 1 45) Vijayāditya's son Vikramāditya granted protection (rakshā), i c a confirmation of the former grant, to the Brāhmanas of this village (l. 45), because he had obtained a boon from the god of the Parašurāmēśvara temple (l. 43) In verse 21 f the donor, Pribhumēru's son, requests future kings to protect his grant Lines 50-53 record the names of the composer and of the writer of this eulogy (prašasti) A postscript in Tamil states that the revenue assessment (puram) of the village amounted to 500 kādi of paddy and 10 (kaļaāju of) gold (l. 53 f)

Before discussing the historical information which is supplied by this inscription, I may state that Viprapītha (v 19 and 1 45) is clearly a Sanskrit equivalent of Tiruvippirambēdu, the ancient name of Gudimaliam, where the temple of Parasurāmēsvara (1 43) exists to the present day

When my late friend Venkayya wrote his learned article on five Bāna inscriptions at Gudimallam, which was destined to remain his last contribution to the Epigraphia Indica (above, Vol XI, pp 222 ff), no other genealogical inscription of the Bāna dynasty was available but the Udayēndiram plates published by Kielhorn (above, Vol III, p 74 ff) From the new plates we now learn that the king Prabhumēru of the Udayēndiram plates had also the name Vijayāditya, and that his father, who is called Bānavidyādhara in the Udayēndiram plates, had the two additional names Vikramāditya and Jayamēru. These fresh facts may be used for locating in the genealogical tree a few Bāna kings who are referred to in other inscriptions. A vīragal which was published by Mi Rice² belongs to the reign of Vikramāditya-Jayamēru alias Bānavijyā(dyā)dhara, and mentions a military commander Prabhumēru who may be identified with his son and successor Vijayāditya-Piabhumēru. Inscriptions both of Vikramāditya-Jayamēiu alias Bānavidyādhara and of Vijayāditya-Prabhumēru exist also

¹ An early Rāshtrakūta king Nandarāja is supposed to be mentioned in the Multāī plates of Śaka 631 (Ind Ant, Vol XVIII, p 234), but the actual reading of the plate (1 9) seems to be ANTION In the Tiwarkhīd plates of the same king (above, Vol XI, p 279) the reading is distinctly ANTION The genealogy of this Nannarāja is the same as in the Multāī plates of Śaka 631, but the date of the Tiwarkhīd plates is Śaka 553, which would mean that Nannarāja reigned at least 78 years (')

² See Venkayya's remarks, above, Vol XI, p. 222

³ Ind Ant, Vol X, p 39, No II, and Ep Carn., Vol. X, Ériniväspur Täluk, No. 6

in the Punganur Zamindäri of the North Arcot District 1 One of Venkayya's Gudimallam inscriptions² contains a Saka date—820—which must be assigned to the reign of Vijayāditya-Prabhumēru, because it calls the Bāna king Vijayāditya, to whose reign it belongs, the son of a queen of Bānavidyādhara, ie of Vikramāditya-Jayamēru Another queen of Bāṇavidyādhara, named Kundavvai, was the daughter of Pratipati-Araiyar, ie of the Ganga king Prithivipati I,³ who was a contemporary of the Rāshtrakūta king Amēghavarsha I⁴ and of the Pāndya king Varaguna.⁵ Two further inscriptions of Vijayāditya (Prabhumēru) furnish the Saka dates 827 and 831.⁶

According to the Udayëndiram plates, Prabhumëru's great-grandson, Vikramāditya-Vijayabāhu, was a friend of Krishna-Rāja, who used to be identified with the Rāshtrakūta king Krishna II (about A D 900). This identification cannot be upheld, because we have now for Prabhumēru Šaka dates ranging about A D 900, but Vijayabāhu's friend Krishna-Rāja must have been the Rāshtrakūta king Krishna III (about A D 950), of whom we know from other sources that he made and held extensive conquests in the South. The Ganga prince Prithivīpati II Hastimalla, who received the title Bānādhirāja from the Chōla king Parāntaka I,7 and whose inscriptions are dated in the 9th and 15th years of the same king⁸ (ie A D 915 and 921), would thus have been a temporary usurper and a predecessor of Vikramāditya-Vijayabāhu. He was the Chōla king's candidate for the Bāna throne, while the legitimate ruler Vijayabāhu was the protégé of the Rāshtrakūta invader. To facilitate reference, I subjoin a tabular statement of the two Bāna genealogies

Gudimallam plates	Uday ëndiram plates	Remarks
Nandivarman	Jaya-Nandıvarman	
Vıjayāditya (I).	Vijayāditya (I)	
Malla-dēva	Malla-dēva	
Vikramādītya (I) Jayamēru	Bānavidyādhara	Son-ın-law of the Ganga Prıtlıvipatı I, who was an adversary of the Pānḍya Varaguna and of the Rāshtrakūta Amōghavarsha I
Vıjayāditya (II) Prabhumēru	Prabhumēru	Inscriptions dated in Śaka 820, 827, 831
Vıkramädıtya (II) (heir-apparent)	Vikramāditya (II) Vijayāditya (III) Pugaļvippavarganda Vikramāditya (III) Vijayabāhu	Friend of the Räshtraküta Krishua

¹ See above, Vol. XI, p 285

² Ibid, pp 227 f

³ In his Annual Report for 1908-09, p 13, Mr R Narasimhachar has suggested that the actual name of this chief may have been Dindika

South-Ind Inscr, Vol III, Nos 47 and 48
 See above, Vol 1X, p. 87.
 Above, Vol XI, p 228, and Ep. Carn., Vol X, Mulbägal Täluk, No 229

Above, Vol IV, p 225, verse 5 8 Ibid, p 224, and South-Ind. Inser., Vol II, p 589

rules of Sandhi are neglected in Nandivarmmā iti (1 19), nriparāt=bhija- and prādāt=grāman= (1 34), chēt (1 37), and °bhyah (11 39, 42 (twice), 52) In -nripiṇahsh=shadgunē (1 30) and in four other cases (11 38, 40, 41 (twice)) final Visaiga is expressed both by its original form and by a sibilant Consonants are doubled throughout after r, and before y and r in -maddhyē (1 2), -viddhyud- (1 3), -viddrā(ddru)ma- (1 3), -māttraś= (1 5), Ruddrō (1 9), Girittrēna (1 33), and pittrē (1 35), but not in traividya (1 41), tsha(ksha)tra (1 23), putrēna (1 32), vēda-traya (1 39), and vikrama (passim) The superscribed τ of double consonants is often omitted through carelessness

After lengthy invocations of Šiva, which have already been noticed in the preceding remarks the inscription introduces the demon king Bali (v 9), who is stated to have been the son of Virochana, and to have granted the earth at a sacrifice to Krishna (i e to Vishnu in his incarnation as a dwarf). One of Bali's descendants was king Nandivarman (v 10 f.) His son was Vijayāditya (v 12), his son Malla-dēva of the Bāna race (v 13), his son Jayamēru (v 14) alias Vikramāditya (v 15), his son Vijayāditya (vv 16, 20, and 1 44) alias Prabhumēru (vv 17, 21), and his son Vikramāditya (v 20 and 1 44) or Vikramādityavarman (v 18)

According to verse 19 a king named Nanda¹ (who may be meant for the Nandivarman of verse 10 f) had granted to Brāhmanas the village called Viprapītha With the sanction of his father (v 20 and 1 45) Vijayāditya's son Vikramāditya granted protection (rakshā), i e a confirmation of the former grant, to the Brāhmanas of this village (1 45), because he had obtained a boon from the god of the Parasurāmēsvara temple (1 43) In verse 21 f the donor, Prabhumēru's son, requests future kings to protect his grant Lines 50-53 record the names of the composer and of the writer of this eulogy (prašasti) A postscript in Tamil states that the revenue assessment (puram) of the village amounted to 500 kādi of paddy and 10 (kaļaāju of) gold (1 53 f)

Before discussing the historical information which is supplied by this inscription, I may state that Viprapītha (v 19 and 1 45) is clearly a Sanskrit equivalent of Tiruvippirambēdu, the ancient name of Gudimallam, where the temple of Parasurāmēsvara (1 43) exists to the present day

When my late friend Venkayya wrote his learned article on five Bāna inscriptions at Gudimallam, which was destined to remain his last contribution to the Epigraphia Indica (above, Vol XI, pp 222 ff), no other genealogical inscription of the Bāna dynasty was available but the Udayēndiram plates published by Kielhorn (above, Vol III, p 74 ff) From the new plates we now learn that the king Prabhumēru of the Udayēndiram plates had also the name Vijayāditya, and that his father, who is called Bānavidyādhara in the Udayēndiram plates, had the two additional names Vikramāditya and Jayamēru. These fresh facts may be used for locating in the genealogical tree a few Bāna kings who are referred to in other inscriptions. A vīragal which was published by Mr Rice's belongs to the reign of Vikramāditya-Jayamēru alias Bānavijyā(dyā)dhara, and mentions a military commander Prabhumēru who may be identified with his son and successor Vijayāditya-Prabhumēru. Inscriptions both of Vikramāditya-Jayamēru alias Bānavidyādhara and of Vijayāditya-Prabhumēru exist also

¹ An early Räshtrakūta king Nandarāja is supposed to be mentioned in the Multāī plates of Śaks 631 (Ind Ant. Vol XVIII, p 234), but the actual residing of the plate (1 9) seems to be নুধান In the Tiwarkhēd plates of the same king (above, Vol XI, p 279) the reading is distinctly নুধান The genealogy of this Nannarāja is the same as in the Multāī plates of Śaka 631, but the date of the Tiwarkhēd plates is Śaka 553, which would mean that Nannarāja re gned at least 78 years (')

² See Venkavya's remarks, above, Vol XI, p. 222

s Ind An', Vol X, p 39, No II, and Ep Carn., Vol X, Ériaivaspur Taluk, No 6.

in the Punganūr Zamindārī of the North Arcot District ¹ One of Venkayya's Gudimallam inscriptions² contains a Śaka date—820—which must be assigned to the reign of Vijayāditya-Prabhumēru, because it calls the Bāna king Vijayāditya, to whose reign it belongs, the son of a queen of Bānavidyādhara, i.e. of Vikramāditya-Jayamēru. Another queen of Bāṇavidyādhara, named Kundavvai, was the daughter of Pratipati-Araiyar, i.e. of the Ganga king Prithivīpati I,³ who was a contemporary of the Rāshtrakūta king Amōghavarsha I⁴ and of the Pāndya king Varaguna ⁵ Two further inscriptions of Vijayāditya (Prabhumēru) furnish the Śaka dates 827 and 831 ⁶

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Gudimallam plates	Udsy Endiram plates	REMARKS
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Vikramādītya (I) Jayamēru	Bānavīdyādhara	Son-ın-law of the Ganga Prithivipati I, who was an adversary of the Pändya Varaguna and of the Räshtraküta Amöghavarsha I
Vijayāditya (II) Prabhumēru	Prabhumēru	Inscriptions dated in Saka 820, 827, 831
Vıkramādıtya (II) (heir-apparent)	Vikramāditya (II) Vijayāditya (III) Pugalvippavarganda Vikramāditya (III) Vijayabāhu	Friend of the Rāshtrakūta Krishua III

¹ See above, Vol XI, p 235
² Ibid, pp 227 f

⁸ In his Annual Report for 1908-09, p 13, Mr R Narasimhachar has suggested that the actual name of this chief may have been Dindika

South-Ind Inser, Vol III, Nos 47 and 48
 See above, Vol IX, p 87
 Above, Vol XI, p 228, and Ep Carn, Vol. X, Mulbägal Täluk, No 229

⁷ Above, Vol IV, p 225, verse 5 8 Ibid., p 224, and South-Ind. Inser., Vol II, p 889

TEXT.1

First Plate , Second Side

- 1 Namaś-Średya seasti | Jayati sa sareva-vydpi yat-l-rita-pr-
- 2 maddha-kandharā-maddhyč [i*] gala-bhūshan-āhi-pratibimbam-iya su-
- 3 18-dahana-visham | [1*] Jayati hutāsma-viddyud-viddrā(ddru)ma-samghāta-ni-
- 4 bha-jatā-bhārah [1*] yach-chhirasi mani-jatā-[bh]ā-rakta-sairt-pitma(dma)-māl-ē-
- ī va | [2*] Jajati pranavapyāttho? lēkhā-māttraś=śikhā-sasi yasya [[*] dri-
- 6 dha-nahana-khinna-vishadhara-van-anala-dagdha iva latshyah(kshyah) | [3*]

Second Plate , First Side

- 7 Jayaty-abdhara-samkāśa-kandharañ-ch-āhi-kundalam [i*] lalāt-čtsha(ksha)nam-Ākāč is i-
- 8 1[1]n-mālā-dharam vapuh | [4*] Jayati vrish-ēšo devo lalāta-nayan-āgni-
- 9 mia(pa)tit-Ānamgah [1*] asuia-pui-āii(rī) Ruddro jigad-udaya-layamlaro bhitnah [1 [5*]
- 10 Jayatı sa-nād-ātthō=sō4 śaktı-dvaya-5gun-ākarō vibhu-
- 11 ś=Śambhuh [1] samvrita-mantr-āitth-āitthaś='sabd-ādi-gunair=anupalabhyah !1 [66]
- 12 Jayatı jatā-dhara-mo(mau)lu = Mmandākınī-pūrıta-7mahā-makut-ēśah [|*] Śı(Gı)-
- 13 mtanay-ārppita-bhāgō guna . mhitō vibhu[r*]=vvyāpih(pī) | [7*]

Second Plate , Second Side

- 14 Namaś=Śivāya svastī(sti) śiī [||*] Jayati sa Kām-āmga-dahanō9
- 15 mastaka-nyasta-mugdh-ënduh [|*] k-ādī(dı)-trin-āntasy=ēsō10 gupty-u-
- 16 tpatti-laya-hētub. [||] [8*] Balı[r*]. Vvairochanoli nāma Dāna-
- 17 v-endið mahá-balah [i*] prádát=sa gam=makha-taiē Krishnáy=ami-
- 18 ta-tējasēh¹² [||] [9*] Tasy=ānvayē samu[d]bhūtah prithivi(vI)pāla-sa-
- 19 ttamah [|*] Nandivarmm[ā] itils khyātah prasamsita-mahā-balah | [10*]

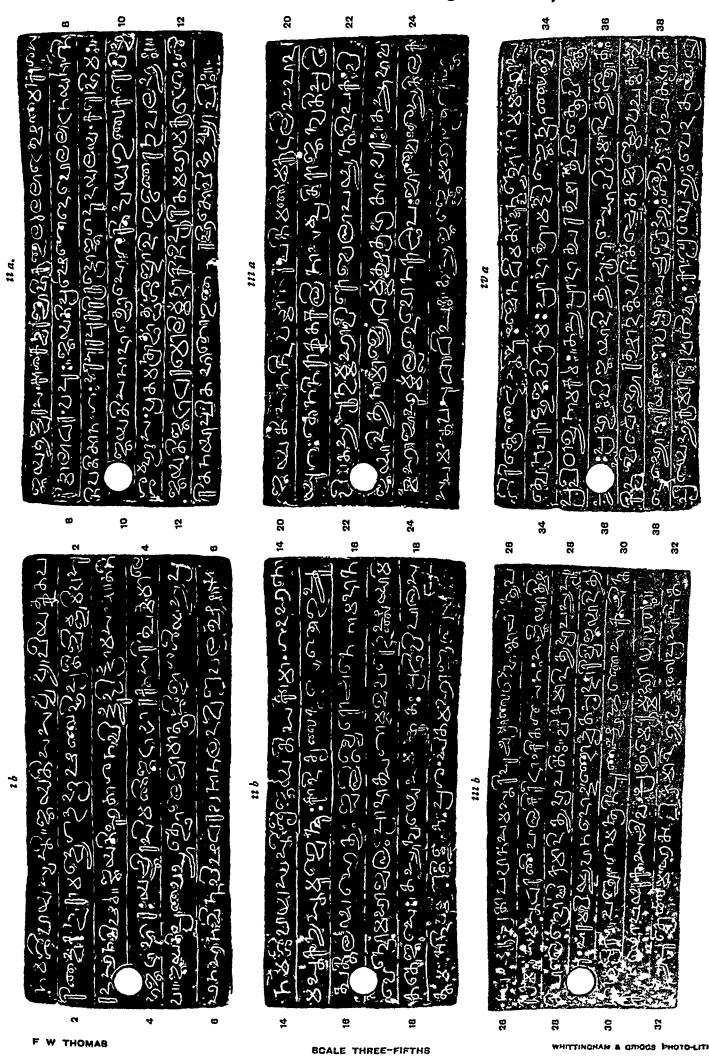
Third Plate , First Side

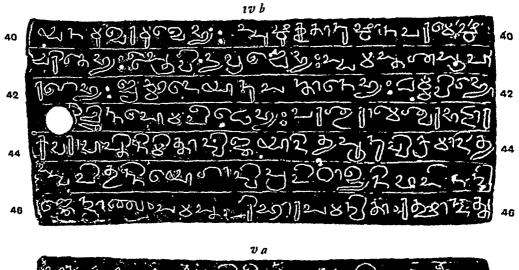
- 20 Jayatili sa Nandiva[r]mmā naiapati-mani-mikuta-li(li)dha-pāda-
- 21 yugah [1] tēna nirākrita-kalinā samprati rājanvati(ti) prithi-
- 22 vî[h]¹⁵ || [11*] Tasya sünur=mmahä-virō vělä-paryyania-dipakah [|*] V1
- 23 jayādītya-nām-ākhyō dharmma-tsha(ksha)trabhrītām varah | [12*] Tasy=ābhava-
- 24 n=mahā-bāhur-Mmalla-dēvō narāthı(dhi)pah []*] Bāna-vamśasya tılaka-
- 25 s=samasta-vasudh-ādhipah [||] [13*] Tasya jajñē mahā-śūrō Ja-

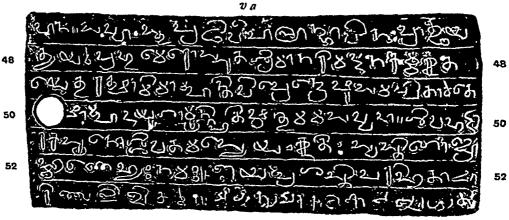
- ² For the sake of the metre, a word like bhoga may have to be inserted after -ahi-
- * Read perhaps pranavasy=ārddhō
- 4 Read perhaps odā rddho[or rttho?-F W T] sau
- For the sake of the metre, iakty arddha- may have to be read Read perhaps -arddhas=
- For the sake of the metre, -pūrita may have to be replaced by its synonym -bhrita- [and perhaps makuf- isah is for makutah But the scansion seems too irregular in many places.—F. W T]
 - Bead perhaps gunatva-rahito [or guna-gana, since gunatra is found only in gunas?—F W I].
 - * The metre is wrong here
 - $^{\circ}$ For the sake of the metre, $y\bar{o}$ may have to be inserted here
 - " The second half of the o of "no is very faintly seen
 - 1- the correct Sandhi °varmm=ēti is precluded by the metre
 - " Read Vijayati on account of the metre

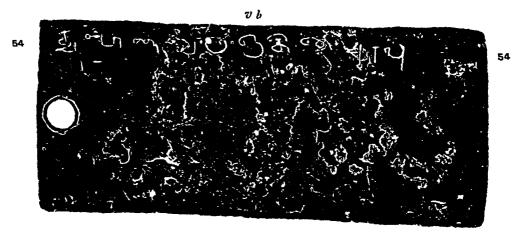
- 12 Cancel the Visarga
- 15 Cancel the Visarga

From two sets of ink-impressions supplied by Rao Bahadur H. Krishna Sastri









Third Plate, Second Side

- yamēruh pratāpavān []*] samasta-ripu-chakrānām=bhētt=āchintya-pa-26
- 27 rākramah | [14*] Samasta-dharanīpāla-kurīt-āmkita-śāsanah [1*] sa jiyāt=shi(kslii)-
- tıpal-endrö Vıkramadıtya-bhüpatıh | [15*] Vıkramadıtya-bhüpasya sü-
- [n]uh parama-viiyyavān [|*] dor-ddaņd-oddhrita-srisht-ārii =!Vvijayāditya-
- nāma-dhrikh2 | [16*] Panchāmga-mantia-nipunahsh=2shadgunē sakta-chinta-
- kah [[*] nay-opayukta-sachivah Prabhumërur=mmahä-yasah | [17*] 31
- Tasya putrēna mahatā Vikramādityava[r]mmanā [i*] piasādita-32

Fourth Plate . First Side

- Gırıttröna dhvasta-duhkhöna dhimatā [|| 18*] Apı cha³ [||*] Nandō nāma mahā-sa-
- tvo(ttvo) nripa-rat=4bhuja-vikramah [|*] piādāt=6giāman=dvij-ondranam Vi-
- prapīth-ākhya-nāmakamh⁶ || [19*] Tasya prādāt=sa ratshā(kshā)n=tu pittiē vijnā-
- [pya] sah? prabhuh [1*] Vijayāditya-sūnus=s58 Vikramādityassrātah9 [|
- Kı(kī)drıg-vidhēbhyō ratshā(kshā)n=dattavān=iti chēt(d=) Brahm=ēva patm(dm)-āspa-
- debhyo Narayana iva bhrita-sach-chakrebhyahs=10\$iva iva sita-bhūti-38
- priyebhya[h*] Kumara wa Śiv-amk-aśrayebhyah(bhyo) veda-tray-adhya-39

Fourth Plate, Second Side

- 40 yana-mukhara-mukhēbhyahs=10sushthu-krit-anushthana-Pai amēshthi-
- charitēbhyahs=10traividya-vriddhēbhyahs=10samasta-šāsti a-pā-41
- ragēbhyah(bhyō) brahmadēy-ānusantānēbhyah(bhyō) dharmma-vi[d*]bhyō= 42
- [v]ichchlinna-somapithebhyah [||*] Parasurāmēsvara-bhattāi a-43
- ka-var-āvāpti-nimittād=Vijayāditya-sūnu[i*]=Vvikramāditya-44
- s=sva-pitu[1*]=nniyögad=Viprapith-akhya-niväsinan=dvi-45
- 46 j-ēndrānam samasta-[pa]r:Lāra-samanvitām ratshā(kshā)n=datta-

Fifth Plate, First Side

- vān || Sa[r*]vvāms=tu prithivīpālān=bhāvinah prā[r*]tthaya-47
- ty=ayam [|*] Prabhumērōs=suta[h*] śrīmān=arı-marddana-karımma-krita¹¹ [||] [21*] 48
- Yē tu ıatshā(kshā)m=ımām=pāntı vipr-ēndrēshu sama[r*]ppitām [[*] tē-49
- [sh]ām=pāda-yugā mūnni(rdhni)13 tishthantu mama sa[1*]vvadā | [22*] Šīva-bhattā-50
- raka-sūnōś=Šivatamasy=čyam kritih [||*] Svasti gō-brā-51
- hmanebhyah(bhyō) namah | Iyam=prasasti[h] Parahit-āchā-52
- 53 rinā likhitam[h](tā) | A[yu]nuru=13kkādı nellu[m] pat-

These two words are entered below the line, and the place at which they have to be inserted is marked by a cross or caret (kākapada), of Sir Aurel Stein's Translation of the Rājataranginī, IV, 117 and note

5 Read prädäd=

· Cancel the Visarga

7 The syllable sa is entered below the line, read perhaps sat-prabhuh

8 Read perhaps sūnur=yyō

" Read perhaps stya with utah.

10 Cancel the Visarga

- 11 Road -Lrst
- 18 Reul ainnūru=.

[ा] Read -dript-arir= [Read त्य ?-F W T]

² Cancel the Visarga

⁴ Rend +ad=

¹² After this word the syllable ha is written below the line.

Fifth Plate, Second Side.

54 tu ponnum idin puravu [||*]

TRANSLATION.

(Line 1) Obersance to Siva ! Hail!

[Verses 1-7 are addressed to Siva]

(Line 14) Obersance to Siva! Hall! Prosperity!

[Verse 8 is again addressed to Siva]

(Verse 9) (There was) a powerful lord of demons (Dānava), Bali by name, the son of Virochana He presented at an excellent sacrifice the earth to Krishna of immeasurable lustre 1

(Verse 10) In his lineage was born the best of kings, called Nandivarman, whose great power was praised.

(Verse 11) Victorious is that Nandivarman, whose pair of feet was kissed by the diadems, (set) with jewels, of princes. Through him, who drove away (the sins of) the Kali (age), the earth is now (1) provided with a just king

(Verse 12) His son (was) a great hero, illuminating (the earth) as far as the coast (of the ocean), called Vijayādītya by name, the best of just rulers

(Verse 13) His (son) was the long-armed king Malla-deva, the ornament of the Bana race (and) the lord of the whole earth.

(Verse 14) To him was born the powerful great hero Jayamëru, the breaker of the circle of all enemies, (and) whose valour was inconceivable

(Verse 15) Let that king Vikramāditya be victorious, the lord of princes, whose orders were marked ($\imath e$ bowed to) by the diadems of all rulers of the earth 1

(Verse 16) King Vikramāditya had a very brave son, who bore the name Vijayāditya, (and) who uprooted proud enemies by (his) strong arm

(Verse 17) The renowned Prabhumëru knew the spell of five members², his thoughts were occupied with the six measures of politics; (and) his ministers were employed with polity.

(Verse 18) By his great wise son Vikramādityavarman, who propitiated Giritra (Śiva), (and) who removed distress, (this grant was made)

(Line 33) Moreover -

(Verse 19) The noble ruler of princes, Nanda by name, whose arms were powerful, (had) presented to chiefs of Brāhmanas the village called Viprapīţha by name

(Verse 20.) But Vijayāditya's son, that virtuous lord who was celebrated (by the name of) Vikramāditya, granted a confirmation (of the former grant) to this (village), after having submitted (this matter) to (his) father

(Inne 37) If (you ask) to what kind (of people) he granted the confirmation —to those who were abodes of prosperity (padmā), as Brahmā dwells on a lotus-flower (padma), who supported a circle (chakra) of virtuous men, as Nārāyana (Vishņu) holds an excellent discus (chakra), who were beloved by bright welfare (bhūti), as Śiva is fond of white ashes (bhūti), who resided near (the temple of) Śiva, as Kumāra rests on Śiva's lap, whose mouths resounded with the recital of the three Vēdas, who practised in a suitable manner the conduct of

¹ Cf verse 3 of the Udayendram plates, above, Vol III, p 78

² Viz the five syllables namas-Śwaya, "obeisance to Śwa!" Cf ll 1, 14. [Pańchanga-mantra is counsel (consisting) of five subdivisions'; see Monier Williams s.v. anga —H K. 5]

Paramēshthin (Brahmā); who had advanced in (the study of) the three Vēdas, who had mastered all sciences, who (possessed) a series of gifts to Brāhmaņas, who knew the (sacred) law, (and) whose draughts of Sōma were uninterrupted

(Line 43) Because he had obtained a boon from the god Parasurāmēšvara, Vijayāditya's son Vikramāditya granted, at the direction of his father, the confirmation, accompanied by all exemptions (parihāra), to the chiefs of Brāhmanas residing in (the village) called Viprapītha.

(Verse 21) But the destroyer of enemies, that glorious son of Prabhumeru, requests all future rulers of the earth —

(Verse 22) "Let there rest for ever on my head the pairs of feet of those (kings) who protect this confirmation granted to chiefs of Brāhmanas!"

(Line 50.) This is the composition of Sivatama, son of Siva-bhattaraka. Hail! To cows and Brahmanas obeisance! This eulogy (praéasti) was written by Parahit-achari!

(Line 53) The revenue assessment of this (village amounted to) five hundred $k\bar{a}di^3$ (of) paddy and ten $(ka\underline{l}a\tilde{n}ju)$ of) gold.

No 2—TUMBAGI INSCRIPTION OF THE REIGN OF SATYASRAYA SAKA 926 By Lionel D Barnett

Tumbaga, or, as the name was anciently spelt, Tumbige, is a village lying in lat 16° 34' and long 76° 20', in the Muddebihāl tāluka of Bijāpūr District, and formerly was included in The name is given as "Toombgee" on the Indian Atlas sheet the Pagalatti Three-hundred 57 and as "Tumbgi" on the Bombay Survey sheet 350 It contains a monastery known as "Polayya's Math," at the well of which there is (or was) a stone inscribed with the present record A bad copy was made by Elliot's pandit, and appears in Vol I, fol 17a of the Elliot Collection (Royal Asiatic Society's copy) I now edit the text from good ink-impressions prepared for the late D: Fleet, which are now in the British Museum 4-The stone is a long narrow block, with an upper compartment in front containing sculptures, viz in the centre a linga on a stand, with an upright figure of a votary facing it on the proper right of it, and still further to the right a cow with sucking calf Underneath this is the inscribed area, which seems to include three faces of the slab The first face, containing ll 1-17, is about 1 ft 1 in wide and 3 ft high, the second, containing l1 18-40, is about 10 in wide and 3 ft 7 in high, the third, containing Il 41—end, is about 3 ft 8½ in high and 6 in wide, except at the bottom, where it runs out towards the right to a width of 102 in, enclosing the last two lines —The character is fair Kanarese, somewhat inclined to angularity, with letters varying from 1 in to 11 in in height Its whole tendency is towards the later type, rather than the archaic The cursive v is found only in the ligature rova (ll 51, 58) —The language is Old Kanarese, except for the concluding Sanskrit verses We may note the sporadic change of m to v in -āchchhādanaian (1 32) and mahājanavuv= (11 43-4), and the conditionals adade (1 37) and appade (1 45), which all shew a tendency towards the medieval dialect

The record opens (Il 1-8) by referring itself to the reign of Akalankacharita Invabedanga Satyāśraya (*Dynast Kanar Distr*, p 432), while his officer Setti Brahmayya was administering Tumbagi (Il 8-15), and registers gifts to local religious foundations by the latter and a lady named Aychakabbe, with rules for their management (Il 15 ff.).

¹ āchārı, 'an artisan,' 18 a Tamil form of āchārya

² Puravu occurs also in South-Ind Inser, Vol. II, p 386, text line 99, and above, Vol. IV, p 224, text line 9 For its meaning see the Madras Epigraphical Report for 1920, p 96.

The same measure is mentioned in South-Ind Inser, Vol I, pp. 117, 140

⁴ A notice of the inscription has been given by Dr Fleet above, Vol. XII, p. 306.

The date is specified on ll 11-15 as Śaka 926 (expired), Krodhi; Ashādha amātāsyā, an eclipse of the sun This is quite regular The Southern cycle is used, and according to the Surya-siddhanta (true system) the tithi quoted was connected with Thursday, 20 July, A.D. 1004, ending 3h 33m after mean sunrise (for Ujjain) On that day there was an eclipse of the sun at 3 h 18 m after sunrise by Lanka time Mr R Sewell, who has kindly examined this date at my request, remarks that by the true system of the Arya-siddhanta the result is the same, but that by the mean system of the Arya-siddhanta the fithi was connected with the previous Wednesday, 19 July

The place-names mentioned are: the Pagalatti Three-hundred (1 10), the Tumbigo Agrahara (1 11), and Kalkere (11 23-4) On Pagalatta I may refer to the remarks of Dr Fleet above, Vol XII, p 306 ff, where he identifies it with the district variously called Hagaritige, Hagaritiage, or Hagaratage and connected with the village formerly designated Hagaritage, Hagalittage, or Hagarittage, and now known as Hagarattagi, Hagaritige, Hagarıttıge, or Hagarıttıgı, ın the Shorapur tāluka of Gulbarga District in the Nizam's Territories Kalkere cannot be identified with certainty, there are several places of the name.

TEXT !

- 1 Svastı samasta-bhuvan-āsraya Śri-Pri(pri)thvi-vallabha
- 3 mahārājādhirāja para-
- 4 mēśvara paramabhattārakam
- 5 Satyaśraya-kula-tilaka-
- 6 n=Akalamkacharitan=Iriva-
- 7 bedamgam árlmat Satya-
- 8 śraya-dēvara pāda-padm-ō-
- 9 pajívi Setta Brahmayyam
- 10 Pagalattı 300rara balı-
- 11 ya Tumbige-agrahara Sa-
- 12 kha-varisha³ 926neya Krō-
- 13 dhi-samvatsarad=Ashāda(dha)d=amā-
- 14 väsyeya[m]duve süryya-gra[ha*].
- 15 nadandu Setti Brahmayyam Bra-
- 16 h[m]ēsva(śva)ra-dēvargge bitta ke-
- 17 y=matta 200 ada *
- 18 parekāra-süle-
- yargge kotta key=ma-19
- 20 tta 30 mata(tha)kke kotta ke-
- 21 y=matta 50 dēvālaya-
- 22 nimittam kotta ke-
- 23 y=matta 120 [|*] Kalke-
- 24 reya Gennayyana
- 25 magal=Aychakabbe ta-
- 26 mma manyad=olage mas
- 27 ta(tha)kke kotta key-matta
- 28 50 antu mata(tha)kke ma-
- tta 100 [[*] Inn-alliya pha-29
- ladalu brahmacharyya-

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31
    m=ulla tapaśviya 5
32
    rggel asan-āchchhādanavam
    nadeyısuvar=allı-
34
    y=orvvar=pradhanar=appa-
35
    vargge uttamāgra[m*] na-
36
    deyısuva[r*] brahmacha-
    ryy-ādı-lōpam=ādade
37
38 pora-vadisuvar=[u]-
39 ttamar=appar=amt=appa-
40 r=1 sthitiyol=1 dharmmamam
41 pratipālisuva-
42 r=ūr-odeyarum
43 mahājanavu-
44 v=idan=upêkshi-
45 sidar=appade gu-
46 na-dosham=ava-
47 [ra]n=ērugum ||
48 Gr-odeyara-
49 l=akke mahāja-
50 nadol=akke ā-
51 van-orvvan=i sthi-
52 tryol=allade
53 perat-ondu sthi-
54 tiyol kidi-
55 suv-avam śvāna-
56 gā(ga)rdabha-chāndālam
57
   same(ma)ya-bāhıram [||*]
58 Sarvvathā pālanīya-
59 m tta(tu) tad-dēśas=tais=tu
60 bhūmipai[h*] [|*] ya-
61 sya yasya ya-
62 dā bhūmı[s*]=tasya
63 tasya tada phalam [||] [1*]
64 Sva-dattām para-da-
65 [t]ta[m v]a yo ha-
66 rēta vasumdhar[ām] [|*]
67 shashthim varisha2-sa-
68 hasrānı vishthā-
69 [y]ām jāyatē krimih [||* 2*
70 [Ma]mgala mahā-śri ||
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TRANSLATION.

(Lines 1-9) Setti Brahmayya, who finds sustenance at the lotus-feet of—hail!—the refuge of the whole world, darling of Fortune and Earth, great Emperor, supreme Lord supreme Master, ornament of Satyaśraya's race, Akalankacharita Irivabedanga Satyaśraya-dēva —

(Innes 10-23) (While governing) the Agrahara of Tumbige, forming part of the Pagalatti Three-hundred, during the last lunar day of Ashadha in the cyclic year Krödhi,

¹ Read 5 tapasviyargge.

² Read shashfir=varsha-.

the 926th (year) of the Saka era, during an eclipse of the sun, Setti Brahmayya granted for the god Biahmēšvara a field, 200 mattar, for the monastery he granted a field, 30 mattar, for the monastery he granted a field, 50 mattar, for the benefit of the temple he granted a field, 120 mattar.

(Innes 23-29) Aychakabbe, daughter of Gennayya of Kalkere, granted for the monastery out of her own honorary estate a field, 50 matter Thus (there are) for the monastery 100 matter

(Innes 29-47) Lakewise out of the revenues of this land they shall provide food and clothing for the 5 ascetics living in celibacy. In the case of any superiors of this place, if there should be committed a breach of celibacy or the like in conducting the highest offices, they shall expel (them). The leading men shall be such. They shall preserve this pious foundation, under this constitution. If the majors of the town and the burgesses should have neglected it, guilt shall accrue to them. Any person, whether of the majors of the town or of the hurgesses, who should violate this constitution or any other constitution, (will become) a dog, an ass, or a Chandala, an outcast from society

(Verses 1 and 2 Sanskrit formulæ)
(Line 70) Happiness great fortune !

No 3-A NAGA FIGURE IN THE MATHURA MUSEUM

BY Y R GUPTE, BA

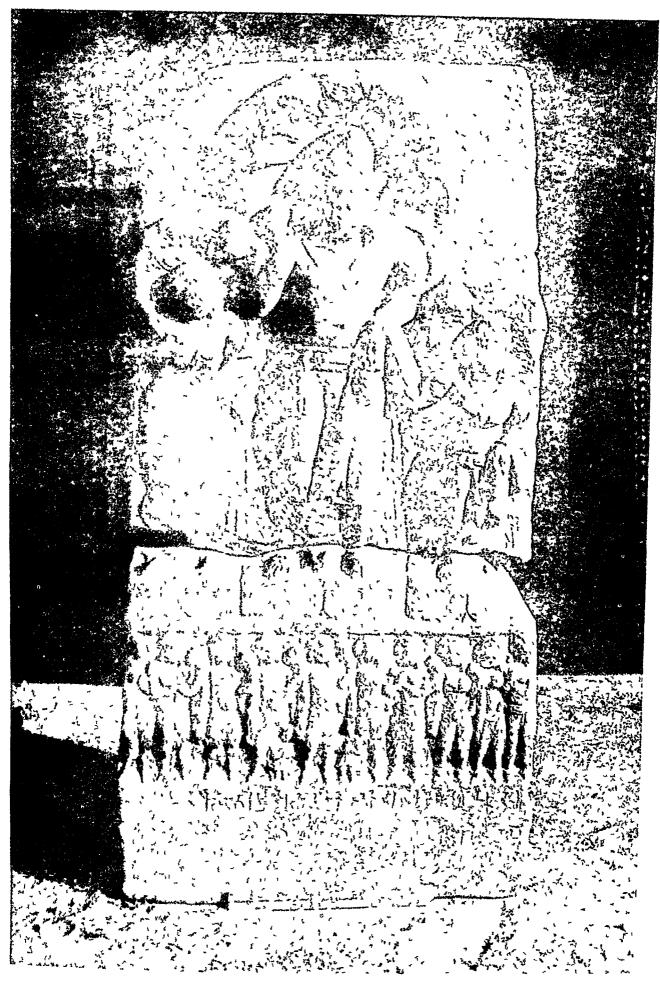
On page 18 of the Annual Progress Report of the Archeological Survey of India, Northern Circle, for the year 1908-1909 an inscribed pedestal from Rål (No 45) is mentioned. The upper part of the image must have been found since I examined the sculpture at Mathura. It represents a Någa standing between two Någis. The height of the sculpture is 4'2'. The inscription measures about 2 ft in breadth and 7 in in height.

The image came from a mound near the village of Bhadāl about six miles from Mathura. From local enquiries it appeared that people from the neighbouring villages used to visit the spot and vows were made to the deities by barren women. When they got sons, they resorted to the place for tonsuring their hair

The Nāga in the centre has a canopy of seven hoods with forked tongues, as is usually the case with the other Nāga images of Mathura, and is similarly dressed. The threefold triangular necklace is a little damaged on the breast. We can see the bracelet on the right wrist, and a similar one on the left is hidden by the upper garment. The position of the hands is similar to that of the Nāga figure from Mathura city of the Kushāna year 52 (A S R for 1908-9, Plate LIV). The left hand holds a small vessel; and a lotus bud is visible in the right. The Nāgīs are dressed in garments of the same stuff as the Nāga and have the same appurtenances in their hands. Beneath the feet of the deities were short inscriptions, now much defaced, which probably contained their names. The vestiges that remain favour this view.

On the pedestal are five males and five females and also two boys with folded hands. They are worshippers. The right hand of the man to the extreme proper right is gone. The male to the left and the female to the extreme proper left have their hands folded, the others holding lotus stalks in their right hands. On the lower part of the pedestal is an interesting inscription

^{1 [} Uttamagram means 'sumptuous meal', see South Indian Inscriptions, Vol III, Part III, p 256, footnote
1. (The meaning is One of the superior members of these will be provided with a sumtuous meal'.—H. K S]



From a photograph kindly supplied by Mr. H. Hargicavis





of three lines, of which the second and third are much damaged, making the decipherment of a part of the third line impossible

Several images of Naga deities, both inscribed and without inscriptions, have been found in Of these the following are dated —

Image of Dadhikarna, of Samvat 26 va 3 di 5 (Ind Ant, Vol. XXXIII, p 102, and Ep Ind, Vol I, pp 380 f and 390, No. XVIII, and Dr. Vogel's paper in the Arch Survey Report for 1908-9, pp 159 ff)

Naga image of the year 40 of Huvishka, in the second month of winter, the 23rd day (Dr. Vogel's catalogue of the Arch Museum at Mathura, No. C 13, pp 88-9, A S R. for 1908-9, p 161)

Naga 1mage of sa 52 va 3 di 25 (Dr Vogel's catalogue of the Arch. Museum at Mathura, p. 91), Arch Survey Report for 1908-9, p 161

Besides, there is a fragment which Dr Vogel assigned to the 3rd century of the Christian era (Dr Vogel's catalogue of the Arch Museum at Mathura, p 90, A. S. R for 1908-9,

The image described in this note dates from the year 8 of the Kushana era and is the earliest dated Naga one at Mathura

The palæography does not call for many remarks. The general characteristics are dealt with in Dr Bühler's Indian Palæography, edited by Dr J F Fleet, p 41. The peculiarities observable in the present inscription are these -(1) The kha is triangular below, but its hook is large, (2) the upper horizontal stroke of ra is turned into a curve, while the lower is split up into lines; (3) ta in the 3rd line shows a loop, (4) the lower part of da is more slanting than in all examples given by Dr Buhler, (5) va is rounded on the left, (6) the left limb of sa is never turned into a loop

TEXT.

- L 1 Mahārājasya rāj-[ā]tirājasya [Shāhi] Kānikkhasya Sa² 8 grī 4 di 5
- L. 2 as[yā]m p[ūrvv]āy[ā]m bhagavatah [Bhūmi-nāga]sya (1) pukshirini cha pra[ti]-
- L 3 [shthāpitō . putras[y]a . turasya niya[mada]kisya [sarvva]sat[v]a hi(hita)-su (sukhārtham) (2)

REMARKS

(1) There can be little doubt about the reading Siāmi-nāgasya I have examined the stone in all lights and shades (2) Hi and su at the end of the third line stand for hita-sukhārtham. This abbreviation is due to want of space

TRANSLATION.

In the year 8 of the great king, the king of kings the Shahi Kanikkha in the fourth (month of) summer, on the 5th day on that (date specified as) above, a tank and a garden of the holy Bhumi naga was founded . otura, son of . for the welfare and happiness of all sentient beings

The Prakritized form Kanikkha deserves notice The form with the long a in the first syllable has already been observed in two inscriptions, namely those on the statue of Kānishka

¹ From the original

It appears that the engraver first cut sya, but afterwards found out his mistake and deeply engraved only ea.

himself and the Bodhisattva statue of the Kushana year 3, in the Sarnath Museum Bhuminga is first met with in this record.

No 4-A VAKATAKA INSCRIPTION FROM GANJ.

BY V S SUKTHANKAR, PH D

This inscription, which is now brought to notice for the first time, was discovered by my friend Baba Rakhaldas Banerji, Superintendent, Archæological Survey of India, Western Circle, in 1919, during one of his tours of inspection in Central India. The excellent estampages from which the accompanying blocks have been prepared were made under his direct supervision, and very kindly placed by him at my disposal for publication

The inscription, Mr Banery tells me, is engraved on a detached slab of stone which he found lying at the bottom of a dongā, adjoining a hill called Maluhā-tongi near Ganj in the Ajayagaḍh (Ajaigarh) State in Bundelkhand Close by is a ruined stone structure, probably a dam to hold the waters of the stream passing along the dongā The find-place of the record is not far removed from the ruined city of Kuthārā, where Cunningham discovered in 1883-84 the Nāchanē-kī-talāi inscription, which was first brought to notice by him, in 1885, in Archæological Survey of India, Vol XXI, pp 97 f, and re-edited by Fleet in Gupta Inscriptions, pp 233 ff and Pl xxxiii B The Ganjînscrîption, like the one discovered by Cunningham, is one of the oldest records of the Vākātaka dynasty, and as such is worthy of being carefully preserved

From the subjoined transcript it will be seen that the text of our inscription is practically identical with that of the Nāchanē-kī-talāī record of the reign of Mahārāja Prithivishēna, edited by Fleet in Gupta Inscriptions, it differs from the latter only in the length and the number of lines, and in the spelling of a couple of words. But our inscription is in a much better state of preservation than that edited by Fleet, at all events the stone has yielded an impression far superior to the one from which the block accompanying Fleet's article was prepared. Consequently we can study the forms of the letters in the subjoined facsimile much better than in that of the Nāchanē-kī-talāī version. Moreover, the writing of this inscription being perfectly distinct, we can give a transcript which is more reliable, and which at the same time discloses certain minor inaccuracies in Fleet's transcript, errors which even then could have been avoided by a more patient study of the available material.

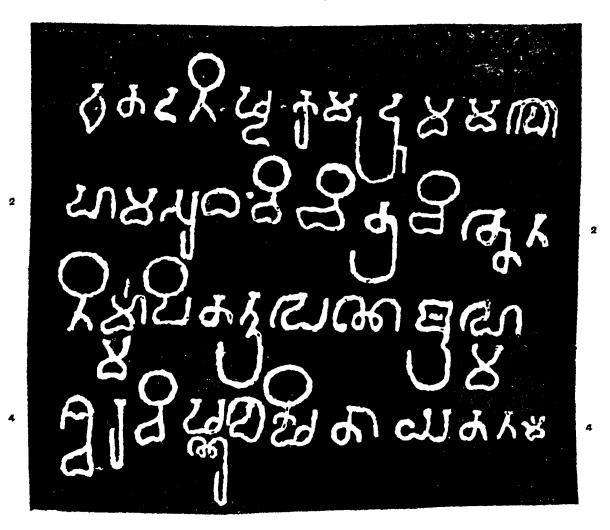
The writing covers a space about 25" broad by 12" high In the centre of the first line of the inscription there is a sculpture of a wheel, of which only a part is visible in the facsimile The average size of such letters as m_i p and v is about 2^r .—The characters belong to the 'southern' variety of alphabets, of which the distinguishing features, in our inscription, are the hooks at the lower ends of the verticals of L and r In particular, we may say that the letters are a specimen of the Central Indian alphabet of the period, which on account of the peculiar 'box-headed' tops of the letters is known as the 'box-headed' sub-variety of the southern alphabet 1 In our specimen the boxes are very conspicuous, and uniformly hollow. are unequal in size and uncouth in appearance It may be added that they betray a conscious effort to substitute angles for curves in the configuration of letters. The letters t and n are sharply distinguished from each other the latter has always a knot at its lower end. The language is Sanskrit, and the inscription is in prose -As regards the orthography the only point calling for remark is the phonetic doubling of the d of dh, in $^{\circ}d$ - $\bar{a}(m)$ nuddhyātō $^{\circ}$ (1 2), before y, and of the t of th, before r, in punya-rtthe (1 3).

¹ See Bühler, Indische Palæographie, p. 62.

1. A Vakataka Inscription from Ganj.



Mandagappattu Inscription of Vichitrachitta



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		•		
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The inscription, which is a record of the reign of Mahārāja Prithivishēna [I] of the Vākātaka family, states merely that a feudatory of his, Vyāghradēva by name, had made something or other for the sake of the religious ment of his parents. The exact nature of this act of plety has been left unspecified, just as in the other version discovered by Cunningham. The silence of these records on the point leads us to infer that the slabs on which the inscriptions are inscribed must have been built into that the making of which they were intended to record

Our information regarding the Vākātaka dynasty is unfortunately very scrappy. All the important events in its history known to us have been succinctly summarized by Kielhorn¹ in his article on the Bālāghāt plates of Prithivishēna II, we can even now add nothing of consequence to what has been said there. We do not possess exact dates for any of the kings of this family, nor can we form any clear idea of the extent of the country ruled over by them. Regarding Prithivishēna I we know that he was the son of Rudrasēna I and the great-grandson of Pravarasēna I, the latter being either the very first king or one of the early kings of this house. It should seem that the Vākātaka king at whose hands the 'lord of Kuntala' had suffered defeat, as recorded in the Vākāṭaka stone inscription at Ajantā,² was this same Prithivishēṇa. Beyond these few facts we know nothing of much consequence regarding the king referred to in our record

About Vyāghradēva, the feudatory of Prithivishēna, we know still less Indeed, Vyāghra appears as the name of chieftains in several well-known inscriptions, 3 but it is not possible to identify our Vyāghradēva with any of them

Bühler⁴ assigns the copper-plates of the Vākātaka Pravarasēna II., the grandson of Prithir vishēna I, to the fifth or sixth century AD, it is not known to me on what grounds. I have examined the inscriptions of the Vākātaka dynasty and compared them with the allied inscriptions engraved during the time of the Guptas, of the kings of Šarabhapura, of Tīvara, of Kōsala and of the early Kadamba kings, without being able to arrive at any definite conclusion regarding the age of the Vākātaka inscriptions. Bühler's date, however, appears to me to be far too early. My impression is that there can be no objection, on palæographic grounds, to assigning this record of the Vākātakas to as late an epoch as the seventh century AD. I conclude this short notice by drawing attention here to the remark of Kielhorn that the Bālāghāt plate of Prithivishēņa II, who was the son of the great-grandson of the Prithivishēņa of our inscription, "may be assigned with probability to about the second half of the eighth century A.D."

TEXT.10

- 1 11Vākātakānā mahārāja-śri12-
- 2 Prithivishena-pad-a(m)nuddhyate Vyaghrade:
- 3 võ mätäpitrö[h*] ¹³puny-ärtthö ¹⁴kritam=iti [||*]
 - ¹ Above, Vol IX, pp 268 f

- ² Arch Surv. West Ind, Vol. IV, p 124, verse 8.
- * Kielhorn's List of Inscriptions of Northern India, Nos. 270, 387 and 509
- 4 Indische Palæographie, pp 62 f
- 5 Corpus Inscriptionum Indicarum, Vol I, Nos. 2-8.
- Gupta Inscriptions, Nos 40 41 Ibid, No. 81
- Ind Ant, Vol VII, pp 35-7
 Above, Vol IX, p 270
- 10 From a set of estampages prepared and kindly lent to me by Mr R D Banerji
- 11 Read Vākāfakānām Fleet in his transcript has wrongly spelt this word with the dental n in Gupta Inscriptions, Nos 53 54
 - 12 Read frf
- 18 Read puny ārtthē. Here also Fleet has wrongly transcribed the word, both as regards the dental n and the case ending In Cunningham's version the word is spelt exactly as here.
 - 16 The construction is faulty The verb should be in the active voice.

TRANSLATION.

Vyāghradēva, who meditates on the feet of the Mahārāja the illustrious Prithivishēņa, (of the family) of the Vākātakas, has made (this) for the sake of the religious ment of (his) parents.

No 5-MANDAGAPPATTU INSCRIPTION OF VICHITRA-CHITTA By T A GOPINATHA RAO, M A, TRIVANDRAU

The small village of Mandagappattu is situated in the Villapuram Taluka of the South Arcot District and is about five miles south-west of Peranai, a station on the main line of the In a small hill near Mandagappattu is cut out a shrine, on the façade South Indian Railway of which is engraved the inscription which is edited below. The shrine has at its back end three niches, which are dedicated to the gods Brahma, Isvara and Vishnu respectively On the panels on either side of this shrine is carved a drara-palaka; the figure on the right very much resembles those which are found in the rock-cut shrines attributable to the Pallava king Mahendravarman I. From this and other considerations based upon its architectural peculiarities Mons G Jouveau-Dubreuil has attributed its excavation to Mahondravarman I of the front view of this rock-cut shrine is given by him in his Pallava Antiquities, Vol I, PI XXVIII The cave was visited by the staff of the office of the Madras Epigraphist, and the Regarding this cave Mr. Venkayya wrote in his Annual Report inscription was copied in 1905 on Epigraphy for that year thus -" The cave at Dalavanur in the Tindivanam Taluka consists of a shrine and a mandapa in front of it, thus resembling to a certain extent the upper cave at Trichinopoly, while that at Mandagappattu (mentioned in Mr Sewell's List of Antiquities. Vol I, p. 209) is a smaller one, which looks as if it had been left unfinished There is only one inscription in the Mandagappattu cave, which is so much damaged that the name of the king cannot be made out. To judge from what remains of it, we may say that it must also belong to the Pallava period And, as we know that it was Mahendravarman I of that dynasty that excavated almost all the hitherto known monolithic caves in the Tamil country, we may not be altogether wrong, if we suppose that the one at Mandagappattu also came into existence during his reign" Depending upon probability, Mr Venkayya hazarded a guess which has now turned out to be quite correct. It is time that the shrine was excavated during the reign of Mahendravarman I, but no serious attempts were made by the Madras Government Epigraphists at deciphering this epigraph The credit of having made out the name of the king belongs to the French Professor, Mons G Jouveau-Dubreuil, of Pondicherry He has visited Mandagappattu more than once to obtain eye-copies and mechanical impressions, as also to acquire any further knowledge by studying the inscription directly from the stone His zeal and perseverance have been richly rewarded by his discovery of the name of the king in whose reign the shrine was excavated At this stage he sent me the impression of the inscription and his eye-copy, so that I might complete the reading of the document, translate and annotate it. When my notes, translation, etc, went to him, it had become impossible for him to edit the inscription himself, for he had to proceed to Cochin China on military duty He therefore sent me a good photograph of a very carefully prepared eye-copy and asked me to edit the epigraph as early as possible From the mechanical impression kindly lent to me by Mons Jouveau-Dubrenil and the photograph of the eye-copy prepared jointly by me and that gentleman I edit this important inscription below

The record consists of four lines of writing in Grantha characters of the first half of the 7th century AD, and is a Sanskrit verse in the Gitt metre. As has been remarked by Messrs. Venkayya and Jouveau-Dubreuil, the inscription is somewhat badly damaged, and it is only with difficulty that one can read it successfully, but one need not on this score imagine that the

No 5]

reading is fauciful. The inscription states that the shine was caused to be made by the king Vichitra-chitti for the accommodation of the three deities Brahma, Isvara and Vishnu, without using in its construction bricks, timber, metal or mortal This short record is of importance in more ways than one. The most important information conveyed by it is that before the time of Vichitra-chitle bricks, timber, metal and mortar were the common temple building materials Evidently the basement and walls of the buildings were of brick work, plastered with chunam. and the superstructures were composed of wood work held in position by the use of metallic This, in fact, is even to this day the mode of construction of temples on the nails and bands Malabar Coast It is difficult to find a single temple in Southern India which belongs to a date prior to the 7th century of the Christian Era One would naturally be inclined, therefore, to surmise that temple huilding was never in vogue before that century. But immediately after this period we see a number of temples which have sprung into existence, and this also seems to lend weight to the surmise that no temples were built before the time of Mahendiavaiman I in The statement made in this inscription that Mahendravarman did not employ Southern India bricks, timber, metals and mortar clearly wairants us in drawing the conclusion that the temples built before his time were all of such easily perishable materials as bricks, etc., that they were all ruped in course of time, and that this is the first rock-cut shrine of his. This is clear from the special mention of anishtaka, etc., in the case of this shine. It is impossible for a number of temples to have come suddenly into existence from the beginning of the 7th century, unless the building of temples had been practised long before

We know from the inscriptions of the cave temple at Pallavaram that Vichitra-chitta was one of the birudas of Mahendravarman I (see Pl XXI in the Pallava Antiquities of Mons G Jouvenu-Dubreuil, wherein the name Vichitri-chitta is clearly legible, side also for the birada Vichitra-chitta, p. 74, para 14, of Ep An Rep for 1909). It is, therefore, patent that the shripe was caused to be excavated by Mahendrasai man I

Again, the biruda Vichitri-chitta means 'the curious or inventive-minded one' One can easily concede to the king Mahendravarman the title 'inventive-minded,' in so far as he avoided bricks, etc., commonly used by all in the construction of their buildings, and devised quite a new path, namely the cutting out of rock-temples, which needed neither bricks, timber nor mortar His country extended far north of the river Krishna, where he must necessarily have seen some of the earlier rock-cut temples and so have introduced into Southern India the new style of cut ting temples in rock. That he was the first to introduce into Southern India the method of excavating temples in the solid rock is certain; for we do not find even a single rock-cut shrine which belongs to a time before the reign of Mahendravarman. We know of no less than fifty rock-cut shrines in Southern India, not one of which is earlier than the time of this Pallava In fact, the art of cutting temples out of rock was contemporaneous with the Pallava dynasty and disappeared after them 1

The birudas of Mahandrayarman are not mere boasts, each of them has a meaning which is based upon some act done by him We have seen that the biruda Vichitra-chitta is assumed by him for his invention of a new method of raising temples Similarly, the biruda Matta-vilasa is, in fact, indeed due to his having composed the pleasant little burlesque the Mattavilasa-prahasana, in which he ridicules an actual matta or madman, a drunken Kapalika and meat esting Bauddha Bhikshu 2 Mention is made of this burlesque in his inscription found in Mamandur,

[[]See South-Indian Images, Introduction, pp 1 f -H K S]

² The following extracts from this work will show that it was the composition of Mahendravarman

स्त्रधार —भवति । यूयताम् । पत्नवकुल्वन् चिमण्डलकुल्पर्वतस्य सर्वन्यविजितसमनसामन्तम् छलस्य श्राखण्डल-समपराक्रमियः यीमिक्रमानुष्यदानिभृतिपरिभृतराजराजस श्रीसिह्निण्वर्मण, पुत्र, शतुपदुर्गनिय्हपर परवितपरतन्त्रतया महाभूतस्थमां मद्दाराज श्रीमहेन्द्रविक्रमश्मां नाम।

The birudas Avani-bhājana, Guna-bhara, Matta-vilāsa and Satin-malla are also introduced ingeniously in the play, these, we know, are the birudas of Mahendravarman I.

the portion where it occurs is somewhat damaged, but the name of the work is not broken, the passage runs thus Mattavilāsādi-padam=prahasan-ōttamam¹ and in the other fragments of the inscription we see that mention is made of poets like Vyāsa and Vālmiki, as also of tālas, etc, of music Thus then each biruda of Mahēndravarman appears to have been bestowed on him or assumed by him for some ostensible reason. The biruda Sankīrna jāti² of this king is rather curious, it means 'of mixed caste.' Perhaps the paients of Mahēndravarman were of different castes. The significance of the other birudas will become patent as further researches are made

It is interesting to note that at the time of Mahendravarman the three deities Brahmä, Siva and Vishnu were enshimed together in the same temple in adjacent niches Such a group consisting of Brahmā, Vishnu and Šiva is called Hari-Hara-Pitāmaha or Dattātrēya Elements of Handu Iconography, Vol I, pp 251-256, as also Pl LXXII, fig. 1 of the same volume) At Mahābalıpuram also there exists a Trimurti cave, but, strangely enough, the cell which is supposed to have been dedicated to Brahmā is occupied by a figure which has only one The figure of Brahma ought, according to the agamas, to be always shaped with four faces, and in practice also we find that three faces are always shown in sculpture, the fourth being supposed to be at the back of the figure In spite of the fact that the figure in the Mahābalipuram rock-cut shrine has only one face Di Vogel in his Iconographic Notes on the Scien Pagodas, contributed to the Director-General of Aicheology's Annual Report for 1910-11, identi-Prof Jouveau-Dubreuil has sent me a note fies the figure with Brahmā (see page 58) containing his own explanation concerning this image for publication here, which I reproduce "The Trimurti cave at Mahabalipuram is formed of three cells, the one on the right contains an image of Vishnu, and the middle one an image of Siva It is, therefore, but natural to suppose that the left cell contains an image of Brahmā I was the first author to remark (vide Archéologie du Sud de l'Inde, Vol II, Pl XVIII B) that the god in the left cell has only one head and so could not be identified with Brahma I have thought fit to affirm that this unknown god is Subrahmanya, who is represented also on the ground-floor of the Dharmaraja Ratha³ (Archéologie du Svd de l'Inde, Vol II, Pl XVIII B) However, the problem why the trinity Subrahmanya, Siva and Vishnu is found in place of the usual trinity Brahma, Vishnu and Siva has remained till now unsolved I believe I shall be able to explain why Subrahmanya 18 substituted for Brahmā in the group of the trinity at Mahābalipuram Mr. T A Gopinatha Rao says in his Elements of Hindu Iconography, Vol II, Part II, page 439, 'Brahma-sasta: This is the aspect of Subrahmanya in which he put down the pride of Brahma by exposing his ignorance of the Vedas He should be represented with a single face and four arms; he should have only two eyes In the back hands there should be the alshamālā and the Lamandalu,4 and the front hands should be held in the varada and abhaya poses. The colour of Brahma-sāstā should be the red of the lotus flower' If we note that the image of Subrahmanya in the Tramurti cave wears on its breast a double chaplet of rudrāksha beads, and that at the entrance to the sanctuary there are two personages dressed as Sannyāsıns and having pointed beards, we shall conclude that the sculptors of Mahābalıpuram have put Subrahmanya in the place of

¹ This fact was also discovered by Prof Jouvean-Dubreuil see his Pallanas, p 38

² [Sankīrnajātı is the name of a variety of musical time Perhaps Mahēndravarman I held this biruda as an inventor of this method of keeping musical time.—H. K S J

Behind the rock bearing the Trimurti shrine are executed the figures of a peacock, an elephant and a monkey, carved in half relief We know that the peacock is the characteristic vehicle (rāhana) of Subrahmanya. The elophant is generally associated with the temple of Sāstā, and is here perhaps intended to show that the image is not the Brahma sāstā [Temples of Traipurushadēva are found dedicated to Sun, Siva and Vishnu. Why should

In Vogel takes the objects in the back hands as a flower and a ring, neither of which is right. The hands carry only a kamandals and an akshamālā, as required by the āgamas.

Brahmā because they have placed there Brahma-sāstā, a deity superior to Brahmā in his knowledge of the Vēdas I think fit to draw attention to the existence of the trinity consisting of Subrahmanya, Šiva and Vishnu and also to explain it with the help of the above-mentioned excellent work of M R Ry T A Gopinatha Rao "1

TEXT.2

- 1 एतदनिष्टकसद्गम[मलो]-
- 2 इससुधं[विचिन्नचि]त्तेन [।*]
- 3 निर्मापितवृपे[ण] ब्रह्मे-
- 4 श्वरविप्णुल[चि]तायतनम् [॥*]

TRANSLATION.

This brickless, timberless, metalless and mortarless temple, which is a mansion for (the Gods) Brahma, Isvara and Vishnu was caused to be created by the king Vichitra-chitta.

No 6-THE FIRST ARYA-SIDDHANTA.

MEAN SYSTEM

(A continuation of the author's "Indian Ohronography")
BY ROBERT SEWELL, I C S (RETIRED).

303 It has long been known that in earlier years the Panchang Brahmans in India framed their local almanacs on calculations made by the use of the mean, as opposed to the true or apparent, motions of the sun and moon. The change from the mean to the true systems of calculation was advocated by Śi Ipathi (A D 1040), and the latter system may have been adopted in some places about that time, becoming more general from about A D 1100 onwards India, however, is a very conservative country, and the late. Dr. Fleet was of opinion that the mean system may have been adhered to, in some tracts at least, till a far later date

304 With this opinion in mind I have prepared the Tables which follow, so as to cover the period of nine centuries from Āryabhaṭa's date, KY 3600 (AD 499-500), to 4500 (AD 1399-1400) It would be well if all dates of inscriptions that have hitherto been set aside as irregular by epigraphists could be re-examined, seeing that the difference between the two systems of the Ārya Siddhānta constantly leads to differences in the computed positions of the sun and moon on the same civil day, and consequently to differences in the almanac, let alone the differences caused by the use of different Siddhāntas

Thus, to give an example The civil day, Monday, 21 October AD 1090, was by the Arya Siddhanta true system described as "Monday, 25 Tula, nija Āśvina kr 10," while by the mean system it was "Monday, 27 Tula, Karttika kr 10" Thursday, 31 Oct, in the same year was by the true system "Thursday, 5 Vrišchika, Karttika šukla 6," while by the mean system it was "Thursday, 7 Vrišchika, Margašira šukla 5"

305 The present Tables are based on the First Ārya Siddhānta as amended by Lalla The principal Table LXXVI is framed on the lines of the *Indian Calendar*, Table I, so as to meet the convenience of epigraphists who have become accustomed to the use of that work. The numbers of the columns are made to correspond in both Tables.

Results of calculation carried out by the present Tables will be found to correspond with those worked by use of Professor H Jacobi's skeleton Tables published in Vol XI above There is no need for me to dwell on the great services he has rendered to the cause of Indian history and epigraphy These are well known All I have done is to follow in his footsteps,

¹ This note is reproduced here exactly as it was sent by Mons G. Jouveau Dubrouil, no corrections have been effected in it

^{2 [}For Plate see the article on 'A Vākātaka Inscription from Gang,'-F W T]

verify his figures to the best of my ability and apply the results to practical use. Any little differences that exist between us have been fully set forth and their cause explained

Elements Arya Siddhanta, mean system

- 306 (1) The length of the mean sidereal solar year is 365d 6h 12m 30°, or 365d 2586805
- (u) For the sun's mean motion per day, hour, etc., see Tables XLIII, XLIV, above, Vol XIV
- (111) The distance of mean moon from mean sun (our a), measured in 10.000ths of the circle, 1e 10,000ths of the mean synodical revolution of the moon and evoluting 12 whole revolutions, increases, during one sidereal solar year, from 0 to 3688.231484714. That is the advance of a in the year. Table LXIV A above, col 3, shews this advance per day, and Table LXV the advance per hour, etc.
- (iv) The value of a in mean reckoning corresponds to that of t, the tithi-index, in true reckoning. It shows what mean tithi was current at the moment in quertion! In general calculation by the Tables this moment is the moment of mean sunrise at Lanka, taken as 6 A M
- (v) In reckoning by 10,000ths of the circle the advance of a in one mean solar month is 307 352623726
- (vi) Each mean solar month consists of 30^d 10^h 31^m $2\frac{1}{2}^s$ The collective duration from the moment of mean Mēsha-samkrānti (the beginning of the mean solar year when the mean sun is at celestial long 0°) to each separate samkrānti, or the moment when the mean sun enters each of the signs, is given in Table LXXVII
- (vii) The length of each mean lunar month is 29d 12b 44m 2s 79 or 29d 530587946, during which the mean moon's distance from mean sun increases, in our circle reckoning, from 0 to 10,000. The length of one mean tithi, or one-thirtieth of the mean lunar synodic month, is 23b 37m 28s 09, or 0d 984352931, during which, in circle reckoning, the increase of a is 333 3
- (viii) The $s\bar{o}dhya$, or time-difference between the moments of arrival at colestial long 0° of the true and mean suns, which moments are known respectively as the true and mean Mcshasamkrāntis, is 2^d 3^h 32^m 30^s , true Mēsha-samkrānti being the earlier

The time of occurrence of mean Mesha-samkranti in every year is given in Table LXXVI, cols. 13 to 17

- (1x) The samuatsara name of the solar year is the same by both true and mean reckonings, except in the years AD 564-5, 905-6, 990-1, 1246-7 and 1331-2. A special footnote is appended to the main Table LXXVI in each case
- (x) There can be no suppression of a lunar month when calculation is made by the mean system, for the length of a mean solar month is greater than that of a mean lunar month, so that two mean solar samkgantis cannot take place within the limits of one mean lunar month
- (n) Let it be noted that no intercalation of a lunar month can take place unless, at mean sunrise of the day on which mean Mēsha-samkrānti took place, the value of a is more than 6280 4892, or unless at the moment of mean Mēsha-samkrānti the value of a is more than 6619 1211, the latter value being 10,000—3380 8789, the total increase of a from Mēsha- to Mina-samkrānti, and the former being 6619 1211—338 6319, the latter value being the increase of a in 24-hours

The 19-year intercalation cycle

307 (See Indian Calendar, § 50, p 29) By the mean system the cycle-sequence is found to work with almost perfect regularity. After four successive intercalations at intervals of 19 years each the intercalated lunar month gives way to the month preceding it. But there are

¹ The equations of sun and moon are not taken into account in mean reckening.

two exceptions in the nune centuries, embraced im Table LXXVI. Between A.D. 751 and 827 there is a min of five intercalary mean Bausha months, and between A.D. 1242 and 1318 there is a run of five intercalary mean Āsvina months.

In eleven instances the names of the mean interestary months given in Table LXXVI differ from those stated in the Indian Calendare These differences are due to the former calculations having been based on Professor Jacobi's earliest Tables published 30 years ago, while the present ones agree with the results of calculation made by his more recent elementary fixtures. Each difference is specially noted at foot of Table LXXVI.

The nakshatra.

308 In the mean system the position at any moment of the mean moon in the ecliptic circle, i.e. the mean moon's nakshatra, is found by adding her mean distance from the mean sun to the latter's longitude, that is to say, by adding to the value of s (the mean sun's longitude) the value of a at the same moment as found by calculation for the mean tithin. All work by the Tables being in the first instance for the mean positions of sun and moon at mean sunrise of any day, Table LXXX provides the sun's mean long., s, in 10,000ths of the circle, for each period of 24-hours measured from the moment of mean Mösha-sainkränti, while Table LXXXI states the same increase for fractions of the day. To obtain the value of s for mean sunrise of any day it is necessary to note first its value after the interval of days between the day of Mēsha-samkrānti and the given day (Table LXXX), and, since that value is measured from the moment of Mēsha-samkrānti and not from mean sunrise, afterwards to deduct from the value so obtained the increase during that fraction of the day (Table LXXXI), The result is the required s, or the mean sun's long, at mean sunrise of the given day. Then s+a=n, the nakshatra index required, or the mean moon's place in the echptic circle at mean sunrise of that day:

The Rule for work, then, is as follows. Find the value of a (=t), the mean tithi-index at mean surrise of the given day (Example 2 below). Note the serial number of the day as measured from Jan 1. Deduct from this the serial number of the day of mean Mesha-sankranti (Table LXXVI, col 13, in brackets). This gives the number of intervening days. Turn to Table LXXX and note the value of s against that interval of days Deduct from this the mean sun's movement given in Table LXXXI during the hours and minutes stated in Table LXXVI, col. 17. The result is the required value of s at mean sunrise of the given day. Add s to a. This = n, the required nakshatra-index. Table LXVIII above, or Table VIII, Indian Calendar, gives the name of the nakshatra.

The Tables.

309. Table LXXVI corresponds to Table I Indian Calendar in formation and is to be used in the same way. Here the value of a is the value of t. It gives the tithi-index direct without further calculation.

Table LXXVII shows the duration and collective duration of mean solar menths, and the increase in the moon's phase, a, during each such month.

Table LXXVIII gives the value of a at the beginning of each Kahyuga century.

Table LXXIX corresponds, with a necessary shift of position, to Table LXXIV above; the use of which is fully explained in my former papers, §§ 279, 301.

¹ To find the value of a, or t, 10 the exact moon's phase, in 10,000ths of the carcle, at any moment of any day, note its value at mean sunrise of the first civil day of the lunrels year, as given in Table LXXVI (col 23), and add its value for intervening days, hours, etc. (Tables LXIV, LXV under heading a).

Tables LXXVIII and LXXIX, with Table LXXIII above (under heading a), which gives the value of a at the beginning of each year of the Kaliyuga century, enable us to find the value of a at mean summer of the civil day Chaitra bukla 1 at the beginning of each luni-solar year Tables LXXVIII and LXXIII yield the value of a at mean summer of the day on which mean Mesha-samkranti occurred, and Table LXXIX enables, by addition, the a for the interval of days between that day and the day Chaitra bulla 1 to be ascertained. [The rame can be found by subtracting from the sum of the values obtained from Tables LXXVIII and LXXIII (col a) the value for those intervening days given in Table LXIV above (see Example 1).]

The use of Tables LXXX and LXXXI is explained above (§ 308) They correspond, mutatis mutandia, with Tables XLVIII A, XLIX above used in calculation for the sun's true longitude

310 The century-Table LXXVIII requires some further explanation. Its object is to determine the mean moon's phase, a, at mean survise of the opening civil day of each Kaliyuga century, ie the day on which mean Mēsha-samkrānti occurred at some time later on that day. Reference to Table LXXVI shows that this opening day occurred at the beginnings of centuries 36 and 37 KY on a Sunday, and in centuries 38 to 45 on a Saturday. From Table I, Indian Calendar, by adding the sodhya interval (above, § 306, 1111) to the date and time there given for the moment of true Mēsha samkrānti, we find that in centuries 46 to 48 it fell on a Friday. In the mean system, therefore, centuries 37 and 45 were defective centuries, while the rest were common

Table LXXVIII corresponds to Table LXXII above, which concerns true solar years, and by the true system, 1 e calculation by the movements of true sun, the only defective century was century 42 This accounts for the difference between the two Tables

It has been shewn above (§ 299, 1) that the actual value of a at mean sunrise of Sunday, 21 March A.D 499, on which day, 6 hours later, occurred the moment of mean Mēsha-samkrānti (mean sun at 0°) at the beginning of Kaliyuga century 36, was, in notation in 10,000ths of the circle, 7715 352496330 The values of a for later century-beginnings are found by addition to this of the century increases of a, common and defective as required

EXAMPLES

Example 1 To find the European day, week-day, and phase of mean moon, is the mean tithi-index a (which = t, the index) at mean sunrise of the first civil day of the luni-solar year, that is to say, of the day called "Chaitra subla 1" of the year in question

[This example is given in order to enable any student to verify the entries in Table LXXVI, cols 19-23. For ordinary date work the entries themselves afford all information]

The mean new moon which marks the astronomical beginning of any mean lunar year is the new moon at the end of the lunar month Phälguna of the previous year. The moment of its occurrence is always earlier than the moment in the current year of mean Měsha-samkrānti, the beginning of the mean solar year. The civil day next following the moment of the initial mean new moon of the year is called "Chaitra sukla 1," that tithi being current at mean sunrise of that civil day. Our tabular calculations being for mean sunrise, the value of a in Table LXXVI, col 23, must always be between 0 and 333 3, the last being the limit of the tithi

To find its value for any year we must first calculate the value of a at mean sunrise on the day of occurrence of mean Mesha-samkranti from Tables LXXVIII and LXXIII (above) under heading a

This done there are two processes by which the mean sunrise value of a on the day Chaitra sukla 1 can be obtained. One is to use Table LXIV, which, by deducting from the a of mean Mesha-samkranti-day mean sunrise (already found) the next lower value of a in the Table as given for the first 30 days, yields at once the interval of days between Chaitra sukla 1 and

165 0261

(0)

Mesha-samkranti, the value of a at mean sunrise of the former, and the required week-day. The second process is, using Table LXXIX, to find such earlier day as by adding its a to the a of Mesha-samkranti, already found, will yield a result between 0 and 3333. The Table then shows the interval of days between the two sunrises, and the week-day corresponding to Chaitra sukla 1.

A. Take for instance the year K.Y. 3725 expired, AD 624-25. Mean Mēsha-samkrānti occurred in that year (Table LXXVI, cols. 13-17) on Wed 21 Mai,—serial day 81, from Jan. 1. We take the value of a at mean summe at the beginning of the Kaliyuga century and at the beginning of the expired year from Tables LXXVIII and LXXIII respectively. The result gives the value of a at mean summe of Mēsha samkrānti day in the given year

	૧ ા ની	\boldsymbol{a}	
(Table LXXVIII). KY cent 37	(1)	6583 1816	
(Table LXXIII above) K.Y year 25	(8)	2047 6413	
. At mean sunrise on Wed 21 Mar, the day of occur-			
renco ot mean Mēsha-samķiānti	(4)	8630 8229	
Process 1			
(Table LXIV above). Next lower value of a in the first 30 days of the Table, i.e. that for 25 days	-(4)	-8465 7968	
At mean sunrise of the day Chaitra sukla 1	(0)	165 0261	
This Chartra finkla I civil day was $(81-25=)$ Day 56, or (LXIX above) Sat 25 Feb A D 624	Table 12	K, Indian Calenda	r, or
Process 2	u- d	a.	
At mean sunrise on Wed 21 Mar, the day of mean Mcsha-samkranti (as above)	(4)	8630 8229	
result between 0 and 3333	+(3)	+15342032	

Table LXXIX shows that the interval of days was 25, and the result is in all respects the same as the former

At mean sunrise of the day Chaitra sukla 1

B Calculation for the mean surrise value of a on the day of mean Mösha-samkränti, the first step shewn in the above, by use of Tables LXXVIII and LXXIII sometimes results in the day found being not the actual day on which Mösha-samkränti took place but the day next to it This is inevitable, seeing that only one Table has to stand for the odd years of all centuries. In such case the necessary adjustment must be made for one day's difference. The entries in Table LXXVI, cols 13 to 17, are conclusive as to the actual day.

Take the year AD. 625-26, KY. 3726 expired. In that year mean Mēsha-samkrānti occurred on Thurs 21 Mar, serial day 80

At m. sunrise of Thurs 21 Mar, the day Mësha-samkranti	of •		(§)	2231:4569
At mean sunrise of Friday, 22 Mar Deduct value for one day (Table $LXIV$) .		-	(6) (1)	2570 9888 338 6819
(Table LXXIII) KY year 26	•	•	(5)	5986.9072
(Table LXXVIII) KY century 37 .			w-a (1)	<i>a</i> 6583 1816

For

the a of Chaitra sukla 1 and its day and week-day, we use	e either o	of the two processes
Process 1	w- d	а
At m sunrise of m M. S -day, Thurs 21 Mar	(5)	2231 4569
(Table LXIV above) Next lower value of a in the first	(0)	0001 7010
30 days of the Table, viz for 6 days' interval	 (6)	-2031 7912
At mean sunrise of Fr. 15 Mar, being the day Chaitra sukla 1	(6)	199 6657
Or, Process 2	w-d	a.
At m summe of m Mesha-samk day (as above)	(5)	2231 4569
Add (Table LXXIX for 6 days earlier)	+(1)	+7968 2086
Result (same as above)	(6)	199 6657
	-	

Example 2. To find the mean tithi-index a for any day in the year, or any moment of any day

Table LXXVI, cols 19-23, states the civil day, Chaitra sukla 1, for each year, its serial number from Jan 1, its week-day, and its tithi-index a at mean sunrise. Calculate, from Table III Indian Calendar or Table LXIII above, the interval of whole days to mean sunrise on the given day, and, if necessary, the fraction of day subsequent to that sunrise Add the increment of a for whole days from Table LXIV, and for fractions of the day from Table LXXV, to the a given in Table LXXVI

Whole numbers may always be used for whole days, the decimals being only resorted to for close cases and when the calculation includes a fraction of a day

E g Required the tithi-index at mean sunrise on Āshādha tukla 4 in the year corresponding to AD 625-26, and at 8^h 20^m 15^s after m sunrise on that day.

Table LXXVI Chart suk 1, mean sunrise Tables LXIII A, LXIV Interval to Ash. suk. 4	(74)		a. 199 6657
and increase of a		(0)	815 5005
At mean sunrise on Ash suk. 4 day	(165)	(6)	1015·1662

Day 165 was (Table IX, Indian Calendar, or Table LXIX above) 14 June AD 625 (6)=Friday a=1015 shews (Table VIII or LXVIII) that sukla 4 was current at mean sunrise of that day

For the specific hour mentioned—							a.
At mean sunnee on that day	•	•	•	•	•	•	1015.1662
(Table LXV) .	•	•		•	•	8p	112/8773
						20^{m}	4 7032
						154	0.0588
At 8 ^L 20 ^m 15 ^s after mean sum	ris o	•	•	•	•	a=	1132 8055

Example 3 To find a (the tithi-index, or phase of mean moon) at each of the solar samkranis in the year (the moments of the mean sun's entrance into the several signs), and to determine whether an intercalation of a lunar month took place during the year

Table LXXVI, cols 18, 14, 17, shews the day and time of occurrence of mean Mēshasamkrānti (mean sun at long '0') in each year, and Example I shows how to find the value of a at mean sunrise of that day. To that value must be added from Table LXV the increment of a during the interval from mean sunrise to moment of samkiānti. The advance of a during each mean solar month, i.e. from each mean samkiānti to the next (Table LXXVII, col 4) is 307 3526. The work may be carried out by use of whole numbers, except when a case is very close. This occurs when a waning moon is very near 10,000, or when a waxing moon is very near 0.

Required the above details for the years noted in Examples 1, 2, viz AD 624-5 and 625-6 In A.D 624-25 mean Mēsha-samkrānti took place 14^h 2^m 30^s after mean sunrise In A.D 625-26 it took place 20^h 15^m 0^s after mean sunrise (Table LXXVI, cols 13-17)

A D 624-25	Value of a at m	sunra	e on	mean	Mē	slıa-sa	m-	ä
krāntı-di	y, as already for	ınd (B	xamp	le 1)	•	•	•	8630 8229
(Table LXY).	Increase of a in	14h		•			•	197 5858
	Ditto	2m	•	•	•	•	•	0 4703
	Ditto	30°	٠	•	•	•	•	0 1176
Exact value of	a at moment of r	nean I	lēsha-	-samkı	āntı		•	8828 9461
A D 625-26	Value of a at m.	sunr	se of	meau	M	isha-sa	ım-	
krāntı-d	ay as found .		•	•	•		•	2231 4569
(Table LXV).	Increase of a m	20h		•	•			282 1932
	Ditto	15 ^m	•	. ,	•	•	•	3 5274
Exact value of	a at moment of 1	mean l	Mēsha	-samkı	ánh	•	•	2517 1775

For the several samkrantis in each year we work here loughly with whole numbers only, adding successively the increase of a in 1 solar month

	A	D 624-25					AD	625-26
At Mësha-samkr .	•	a=8829 807	•	•	•	•	•	2517 307
At Vrishabha-sşinkr.	•	. 9136 307	•	•	•	•	•	2824 307
At Mithuna-samkı	•	. 9443 307	•	•	•	•	•	3131 307
At Karka-samkr	•	. 9750 307	•	•	•	•	•	3458 307
At Simha-samkr .	•	. 57 etc.		•	•	•	•	3745 etc

In A D 621-25 it is seen that the mean moon was waning at the Kaika-samkränti and waxing at the Simha-samkiānti, proving an intercalation of a lunar month, which month (see Table LXXVII, col 1) was Śrāvapa Actually a at Simha samkrānti was 58 36.

In A.D 625-26 the small value of a at the moment of Mesha-samkranti shews that there could have been no intercalation in that year (see above, § 306, x_2)

Example 4 To find the mean moon's nakshatra, or her place in the ecliptic circle at any moment

(See § 308 above) We have to find the value of s, the sun's mean long, at the given moment and the value at the same moment of a, the index of the mean tithi. s+a=n, the index of the nakshatra I assume that, as usual, the values wanted are those at mean sunrise on the given day, for later moments they can easily be found, from Table LXV for a, and from Table LXXXI for s The example here given will shew the process of work.

Required the nakshatra at mean sunrise on the day referred to in Example 2, viz Āshādha sukla 4 in KY 3726, which was proved to be 14 June AD 625, and on which day at mean sunrise the value of a was found to be 1015 1662. The day, measured from Jan 1, was serial number 165. In that year mean Mēsha-samkrānti took place (Table LXXVI) on Day 80 at 20h 15m after mean sunrise. The interval of whole days between 20h 15m after mean sunrise on the given day is (165-80=) 85.

						8
(Table LXXX) Interval of 85 days Less (Table LXXXI) for 20h		22 8149	•	•	•	2327 1179
for 15 ^m .	•	0 2852				
		23·1001		•	•	-23 1001
At mean sunrise on the day Ashadha su		4,	•	•	. 8=	=2304 0178
Add a, as found for that mean sunrise	•	•	•	•	•	1015-1662
At mean sunrise on that day (=14 June)		•	•	•n=	=3319 1840

Table VIII Indian Calendar, or Table LXVIII above, shews that the moon was then in the nakshatra Āślēshā by the equal-space system and by Garga, but in Maghā by the Brāhma Sildhānta 1

The value of n, 3319 1840, in 10,000ths of the cucle, can be converted into degrees, if required, by Table XLV B, above. It = 119° 29′ 26″ That was the mean moon's place

Example 5 The lagna. (See Indian Chronography, § 193, p 74, and Example 63, p 127) Required to ascertain at what hour on the day Āshādha suk 4 K Y 3726, or 14 June A D. 625, the sign Tulā became lagna

At mean sunrise the sun's mean long s was (Example 4) 2304 0178, roughly (Table XLV above) 82° 57′ The first point of Tulā (Libra) (Indian Chronography, Table XXII) is 180°. $180^{\circ} - 82^{\circ} 57' = 97^{\circ} 3' 97^{\circ} \times 4 = 388^{\circ}$, or $6^{\circ} 28^{\circ} . 3' \times 4 = 12^{\circ}$ The first point of Tulā, therefore, was lagna at $6^{\circ} 28^{\circ} 12^{\circ}$ after mean sunrise on the day in question. It lasted for 2 hours, when Vpichika (Scorpio) became lagna

As to these systems soo Indian Calendar, § 38, p.21; Indian Chronography, § 112 etc.

TABLE LXXVI.

Mean System Table, First Arya Siddhanta.

TABLE

MEAN SYSTEM TABLE,

Numbers of columns conform

(Cols. 1 to 4)—The years herein stated are the current years corresponding (Cols. 6 and 7)—Samvatsara-names of mean solar years in italics shew where

	CONCURRENT YEAR.										
		ıkrama	lar year			Jovian sa	JOVIAN SAMVATSARA				
Kalı	Saka	Chattriidı Vikrams	Meshadi solar ın Bengal	Kollam	A.D.	Southern system			(adhika) lunar month		
1	2	3	3a	4	5.	6	7		8a		
3601	422	557			499 500	. 9 Yu	van	•	9 Mārgasira .		
3602	423	558		}	4500-01	10 Dh	atrı				
3 603	424	559			501-02	11 1 έτ	ara				
3604	425	560]		502 03	12 Ba	hudhānya .		5 Srāvana .		
3605	428	561			503-04	13 Pr	amāthın .		•••		
3608	427	562]		*504-05	14 Vi	krama .				
3607	428	563			505-06	15 V <u>i</u>	adar		2 Varšākha		
3608	429	564			506-07	16 Ch	utrabhānu .		•		
3609	430	565			507-08	17 Su	ıbhānu		10 Pausha		
3610	""	566		-	*508-09	18 Ta	iraņa				
3611		1			509-10	19 Pa	irthiva				
3612	==0	"	1		510 11	20 V	yaya	•	7 Āśvina		
3613	[]	. [1		511-12	21 Sa	arvajit	•			
361 ₄ 361	_	"	1		*512-13	22 8	arvadhārın .	•	.		
361			` {		513-14	23 V	ırödhin	•	3 Jyështha		
361	· •		1		514-15	24 ₹	ikpta .	•			
361	- 1] ""	1		515-16	25 K	Chara	•	12 Phāiguna		
36	-	٠,	1		*516-17	1	landana .	•			
36	. •	11 67	٦		217-18	1	naya				
=		01	°		518-19	28 J	aya		8 Kārttika .		

LXXVI.

FIRST ĀRYA SIDDHĀNTA

to Table I, "Indian Calendar."

to the AD years in col 5, as in Table I, "Indian Calendar." differences exist from Surya Siddhanta nomenclature in true solar years.

1 Ārya Siddhānta, mean system.

	co	NIMENCEME	NT OF THE					
Mean bolar year Mean Luni solar year (nean sunrise of civil day on which Chaitra Sukla 1 ends).								
Day and month,	Week day	Time of mean Maha- samkranti.	Day and month, Week day		a (here=t, the index of the tithi)	Kalı year.		
13	14	17	19	20	23	1		
21 Mar (80)	6 Fr: 0 Sat 1 Sun . 3 Tues .	H. M S 6 0 0 12 12 30 18 25 0 0 37 30 6 50 0 13 2 30 19 15 0 1 27 30 7 40 0 13 52 30 20 5 0 2 17 30 8 30 0 14 42 30 20 55 0 3 7 30 9 20 0	27 Feb (58) 17 Mar (77) 6 Mar (65) 23 Feb (54) 14 Mar (73) 3 Mar (63) 20 Feb (51) 11 Mar (70) 28 Feb (59) 18 Mar (78) 7 Mar (66) 25 Feb (56) 16 Mar (75) 4 Mar (64) 21 Feb (52) 12 Mar (71) 2 Mar. (61)	0 Sat 6 Fr: . 3 Tues 0 Sat . 6 Fr: . 4 Wed . 1 Sun 0 Sat 4 Wed 3 Tues . 0 Sat . 5 Thur . 4 Wed . 1 Sun . 5 Thur . 4 Wed .	205 4513 300 0909 175 7743 51 4577 86 0973 300 4125 176 0959 210 7356 86 4189 121 0586 9996 7419† 211 0572 245 6968 121 3802 9997 0635† 31 7031 246 0 185	3601 3602 3603 3604 3605 3606 3607 3608 3609 3610 3611 3612 3613 3614 3615 3616 3617		
20 Mar (80). 20 Mar (79).	1 Sun . 2 Mon.	15 32 30 21 45 0	20 Mar (80) *9 Mar (68)	1 Sun 5 Thur .	280 6581 156 3414	3618 3619		
21 Mar (80)	4 Wed.	3 57 30	26 Feb (57)	2 Mon .	32 0248	3920		

[†] As a mean fitter Chaitra Sukla I was suppressed The civil day corresponding to it, se, the first day of the mean lum solar year, was as given in cols. 19, 20.

TABLE

		ıkrama	lar year			Jovian sa	Mean Intercalated (adhika) lunar	
Kalı	Saka	Chaitrādi Vikrama	Meskadı solar ın Bongal	Kollam	A D.	Southern system	Northern system	month
1	2	3	3α	4	5	6	7	8 <i>a</i>
3621		~~~					·	
3622	442	577			519 20		nmatha	
3022	443	578			*520 21		rmukha	•
3624	444	579	}		521 22		malamba .	5 Srāvana .
3024	445	580	}		522 23	82 Vıl	amba	•
3020 3826	446	581			523 24	33 V1	ann .	
	447	582	}	}	*524 25	34 Sār	l Chartra	
3627	448	583	}		525 26	35 Pla	,	
3628	449	584			526 27	36 Sul	10 Pausha	
3629	450	585	}		527-28	37 Sol		
3630	451	586			*528 29	38 Kr	odhin , ,	,
3031	152	587			529 30	39 V16	ชลิง ล รน	7 Āģrīno .
3632	453	588			530 31	40 Pa	ābhava ,	.]
3633	454	589]		531 32	41 Pla	vanga	
3631	455	590			*532 33	42 Kil		. 3 Jyështha
J635	456	591			533 34	43 Sa1	ımya .	
3636	157	592			534 35		lhārana .	. 12 Phälguna
3637		503	{		535 36		ōdhakrit	
3638	}	594	1		*536 37		rdhāvin .	
3639		595			537 38		mādin	8 Kārttika
3510	1	596			538 39		anda .	
341	1	597			539 40		kshasa	
3512 3513	1	598			*540 41	50 An	•	,. 5 Srāvaņa
3913	1	600	1		541-42		gala .	
2045 2045		600	1		542 43		layukta .	'
	165	661			543 44		dhârthin	. 1 Chaitra

LXXVI-Contd.

1 Årya Siddhänta, mean system.

Day and month, Week day Time of mean Michinal Rank Day and month, Week day Time of mean Michinal Rank Day and month, Day and month, Week day Time of mean Michinal Rank Day and month, Week day Time of the index of	Aija Siguianta, inc										
Day and month Week day		C O:	MME	NCI	EME	NT OF THE					
Mar Mar	MFAN 8	SOLAR YEAR				MEAA TANI SOPYE	year (mean n Chaitra Su	SUNRISE OF KLA 1 ENDS)	Kalı year.		
21 Mar (80)		Week day	mea	n M	Caha-	Day and month, A D	Week-day	the index			
21 Mar (80)	13	14		17		19	20	23	1		
20 Mar (80) . 6 Fri	21 Mar (80)	5 Thur				17 Mar (76)	1 Sun	66 6644	3621		
20 Mar (79) 0 Sat . 22 35 0 23 Feb (54) 3 Tues 156 6631 3623 21 Mar (80) 2 Mon . 4 47 30 14 Mar (73) . 2 Mon 191 3027 3624 21 Mar (80) 3 Tues 11 0 0 3 Mar (62) . 6 Fr 66 9800 3625 20 Mar (80) 4 Wed 17 12 30 21 Feb (52) . 4 Wed 281 3013 3028 20 Mar (70) 5 Thur 23 25 0 11 Mar (70) 3 Tues 315 9409 3627 21 Mar (80) . 0 Sat 5 37 30 28 Feb (59) . 0 Sat 191 6243 3628 21 Mar (80) . 1 Sun . 11 50 0 10 Mar (78) 6 Fr 226 2640 3629 20 Mar (80) . 2 Mon. 18 2 30 7 Mar (67) 3 Tues 101 9473 3630 21 Mar (80) . 4 Wed 0 15 0 25 Feb (50) . 1 Sun 316 2626 3631 21 Mar (80) . 5 Thur 6 27 30 15 Mar (64) 4 Wed 226 5856 3633 20 Mar (80) . 0 Sat 18 52 30 22 Feb (53) 1 Sun 102 2000 3634 21 Mar (80) . 0 Sat 18 52 30 22 Feb (53) 1 Sun 102 2000 3634 21 Mar (80) . 2 Mon . 1 5 0 12 Mar (71) . 0 Sat 130 9086 3635 21 Mar (80) . 2 Mon . 1 5 0 12 Mar (71) . 0 Sat 130 9086 3635 21 Mar (80) . 3 Tues 7 17 30 1 Mar (60) 4 Wed . 12 5920 3638 21 Mar (80) . 4 Wed 13 30 0 20 Mar (79) 3 Tues . 47-2310 3637 20 Mar (80) . 5 Thur 10 42 30 9 Mar (60) 1 Sun 201 5409 3638 21 Mar (80) . 5 Thur 10 42 30 9 Mar (60) 1 Sun 201 5409 3638 21 Mar (80) . 1 Sun . 8 7 30 17 Mar (76) 4 Wed . 171 8699 3634 21 Mar (80) . 2 Mon 14 20 0 6 Mar (65) . 1 Sun 47 5533 3641 20 Mar (80) . 3 Tues 20 32 30 24 Feb (55) 6 Fri . 201 8686 3642 21 Mar (80) . 3 Tues 20 32 30 24 Feb (55) 6 Fri . 201 8686 3642 21 Mar (80) . 5 Thur 2 45 0 14 Mar (73) 5 Thur . 201 8686 3643 21 Mar (80) . 5 Thur 2 45 0 14 Mar (73) 5 Thur . 201 8686 3643 21 Mar (80) . 5 Thur 2 45 0 14 Mar (73) 5 Thur . 201 8686 3643 21 Mar (80) . 5 Thur 2 45 0 14 Mar (73) 5 Thur . 201 8686 3643 21 Mar (80) . 5 Thur 2 45 0 14 Mar (73) 5 Thur . 201 8686 3643 21 Mar (80) . 6 Fri 8 5 7 30 3 Mar (62) 2 Mon . 172 1916 3844		6 Tri	16	22	30	1	6 Fm .	280 9797	3622		
21 Mar. (80)		0 Snt .	22	35	0	1	3 Tues	156 6631	3623		
21 Mar. (80)	·	2 Mon .	4	47	30	•	2 Mon	191 3027	362 4		
20 Mar (80) 4 Wed 17 12 30 21 Feb (52) 4 Wed 281 3013 3028 20 Mar (79) 5 Thur 23 25 0 11 Mar (70) 3 Tues 315 9409 3627 21 Mar (80) 0 Sat 5 37 30 28 Feb (59) 0 Sat 191 0243 3028 21 Mar (80) 1 Sun 11 50 0 10 Mar (78) 0 Fr1 220 2040 3629 20 Mar (80) 2 Mon. 18 2 30 7 Mar (67) 3 Tues 101 9473 3630 21 Mar (80) 4 Wed 0 15 0 25 Feb (50) 1 Sun 316 2626 3631 21 Mar (80) 5 Thur 6 27 30 1£ Mar (74) 6 Fr1 12 2703 3632 21 Mar (80) 6 Fr1 12 40 0 5 Mar (64) 4 Wed 220 5850 3633 20 Mar (80) 0 Sat 18 52 30 22 Feb (53) 1 Sun 102 2090 3634 21 Mar (80) 2 Mon 1 5 0 12 Mar (71) 0 Sat 130 9086 3635 21 Mar (80) 3 Tues 7 17 30 1 Mar (60) 4 Wed 12 5920 3636 21 Mar (80) 5 Thur 10 42 30 9 Mar (69) 1 Sun 26 15409 3638		3 Tues	11	0	0	3 Mar (62) .	6 Fri	66 9860	3625		
21 Mar (80) 0 Sat		4 Wed	17	12	30	21 Feb (52) .	4 Wed	281 3013	3626		
21 Mar (80) . 1 Sun . 11 50 0 10 Mar (78) 6 Fri 226 2640 3629 20 Mar (80) . 2 Mon. 18 2 30 7 Mar (67) 3 Tues 101 9473 3630 21 Mar (80) . 4 Wed 0 15 0 25 Feb (50) . 1 Sun 316 2026 3631 21 Mar (80) . 5 Thur 6 27 30 1£ Mar (74) 6 Fri . 12 2703 3632 21 Mar (80) . 6 Fri . 12 40 0 5 Mar (64) 4 Wed 226 5850 3633 20 Mar (80) . 0 Sat 18 52 30 22 Feb (53) 1 Sun 102 2090 3634 21 Mar (80) . 2 Mon . 1 5 0 12 Mar (71) . 0 Sat 130 9086 3635 21 Mar (80) 3 Tues 7 17 30 1 Mar (60) 4 Wed 12 5920 3636 21 Mar (80) 4 Wed 13 30 0 20 Mar (79) 3 Tues 47 2316 3037 20 Mar (80) 5 Thur 19 42 30 9 Mar (69) 1 Sun 261 5409 3638 21 Mar (80) 6 Sat 1 55 0 26 Feb (57) 5 Thur 137 2303 3639 21 Mar (80) 1 Sun 8 7 30 17 Mar (76) 4 Wed 171 8699 <	20 Mar (79)	5 Thur	23	25	0	11 Mar (70)	3 Tues	315 9409	3627		
20 Mar (80) . 2 Mon.	21 Mar (80)	0 Sat	5	37	30	28 Feb (59) .	0 Sat	191 0243	3628		
20 Mar (80) . 2 Mon. 18 2 30 7 Mar (67) 3 Tues 101 9473 3630 21 Mar (80) . 4 Wed 0 15 0 25 Feb (50) . 1 Sun 316 2026 3631 21 Mar (80) . 5 Thur 6 27 30 1£ Mar (74) 6 Fr1 . 12 2703 3632 21 Mar (80) . 6 Fr1 . 12 40 0 5 Mar (64) 4 Wed 226 5856 3633 20 Mar (80) . 0 Sat 18 52 30 22 Feb (53) 1 Sun 102 2690 3634 21 Mar (80) . 2 Mon . 1 5 0 12 Mar (71) . 0 Sat 130 9086 3635 21 Mar (80) 3 Tues 7 17 30 1 Mar (60) 4 Wed . 12 5920 3636 21 Mar (80) 4 Wed 13 30 0 20 Mar (79) 3 Tues . 47-2316 3637 20 Mar (80) 5 Thur 10 42 30 9 Mar (69) 1 Sun 261 5409 3638 21 Mar (80) 1 Sun 8 7 3	21 Mar (80) .	1 Sun .	11	50	0	19 Mar (78)	6 Fra	226 2640	3629		
21 Mar (80) 5 Thur	20 Mar (80) .	2 Mon.	18	2	30	7 Mar (67)	3 Tues	101 9473	3630		
21 Mar. (80) . 6 Fri . 12 40 0 5 Mar (64) 4 Wed 226 5856 3633 20 Mar (80) . 0 Sat 18 52 30 22 Feb (53) 1 Sun 102 2090 3634 21 Mar (80) . 2 Mon . 1 5 0 12 Mar (71) . 0 Sat 136 9086 3635 21 Mar (80) 3 Tues 7 17 30 1 Mar (60) 4 Wed . 12 5920 3638 21 Mar (80) 4 Wed 13 30 0 20 Mar (79) 3 Tues . 47 2316 3637 20 Mar (80) . 5 Thur 19 42 30 9 Mar (69) 1 Sun 261 5409 3638 21 Mar. (80) 0 Sat 1 55 0 26 Feb (57) . 5 Thur. 137 2303 3639 21 Mar (80) . 1 Sun . 8 7 30 17 Mar (76) 4 Wed . 171 8699 3640 21 Mar (80) 2 Mon 14 20 0 6 Mar (65) . 1 Sun 47 5533 3641 20 Mar (80) . 3 Tues 20 32 30 24 Feb (55) 6 Fri . 201 8686 3642 21 Mar (80) . 5 Thur. 2 45 0 14 Mar (73) 5 Thur . 206 5082 3643 21 Mar (80) . 6 Fri 8 57 30 3 Mar (62) 2 Mon . 172 1916 3644	21 Mar (80)	4 Wed	0	15	0	25 Feb (50) .	1 Sun	316 2626	3631		
20 Mar (80) . 0 Sat 18 52 30 22 Feb (53) 1 Sun 102 2690 3634 21 Mar (80) . 2 Mon . 1 5 0 12 Mar (71) . 0 Sat 136 9086 3635 21 Mar (80) 3 Tues 7 17 30 1 Mar (60) 4 Wed . 12 5920 3636 21 Mar (80) 4 Wed 13 30 0 20 Mar (79) 3 Tues . 47 2316 3637 20 Mar (80) . 5 Thur 19 42 30 9 Mar (69) 1 Sun 261 5409 3638 21 Mar (80) 0 Sat 1 55 0 26 Feb (57) . 5 Thur 137 2303 3639 21 Mar (80) 1 Sun 8 7 30 17 Mar (76) 4 Wed . 171 8699 3640 21 Mar (80) 2 Mon 14 20 0 6 Mar (65) . 1 Sun 47 5533 3641 20 Mar (80) 3 Tues 20 32 30 24 Feb (55) 6 Fr . 201 8686 3642 21 Mar (80) 5 Thur 2 45 0 14 Mar (73) 5 Thur . 206 5082 3643 21 Mar (80) 6 Fr 8 57 30 3 Mar (62) 2 Mon . 172 1916 3644	21 Mar (80)	5 Thur	6	27	30	1£ Mar (74)	6 Fri	12 2703	3632		
21 Mar (80) . 2 Mon . 1 5 0 12 Mar (71) . 0 Sat 136 9086 3635 21 Mar (80) 3 Tues 7 17 30 1 Mar (60) 4 Wed . 12.5920 3638 21 Mar (80) 4 Wed 13 30 0 20 Mar (79) 3 Tues . 47.2316 3637 20 Mar (80) . 5 Thur 19 42 30 9 Mar (69) 1 Sun 261 5409 3638 21 Mar (80) 0 Sat 1 55 0 26 Feb (57) . 5 Thur 137 2303 3639 21 Mar (80) 1 Sun 8 7 30 17 Mar (76) 4 Wed . 171 8699 3640 21 Mar (80) 2 Mon 14 20 0 6 Mar (65) . 1 Sun 47 5533 3641 20 Mar (80) 3 Tues 20 32 30 24 Feb (55) 6 Fr . 201 8686 3642 21 Mar (80) . 5 Thur 2 45 0 14 Mar (73) 5 Thur . 206 5082 3643 21 Mar (80) . 6 Fr 8 57 30 3 Mar (62) 2 Mon . 172 1916 3644	21 Mar. (80) .	6 Fra .	12	40	0	5 Mar (64)	4 Wod	226 5856	3633		
21 Mar (80) 3 Tues 7 17 30 1 Mar (60) 4 Wed . 12·5920 3636 21 Mar (80) 4 Wed 13 30 0 20 Mar (79) 3 Tues . 47·2316 3637 20 Mar (80) . 5 Thur 19 42 30 9 Mar (69) 1 Sun 261 5469 3638 21 Mar (80) 0 Sat 1 55 0 26 Feb (57) . 5 Thur. 137 2303 3639 21 Mar (80) 1 Sun 8 7 30 17 Mar (76) 4 Wed . 171 8699 3640 21 Mar (80) 2 Mon 14 20 0 6 Mar (65) . 1 Sun 47 5533 3641 20 Mar (80) 3 Tues 20 32 30 24 Feb (55) 6 Fr1 261 8686 3642 21 Mar (80) 5 Thur. 2 45 0 14 Mar (73) 5 Thur 206 5082 3643 21 Mar (80) 6 Fr1 8 57 30 3 Mar (62) 2 Mon 172 1916 3644	20 Mar (80) .	0 Sat	18	52	30	22 Feb (53)	1 Sun	102 2690	3634		
21 Mar (80) 4 Wed 13 30 0 20 Mar (79) 3 Tues . 47-2316 3637 20 Mar (80) . 5 Thur 19 42 30 9 Mar (69) 1 Sun 261 5469 3638 21 Mar. (80) 0 Sat 1 55 0 26 Feb (57) . 5 Thur. 137 2303 3639 21 Mar (80) . 1 Sun . 8 7 30 17 Mar (76) 4 Wed . 171 8699 3640 21 Mar (80) . 2 Mon 14 20 0 6 Mar (65) . 1 Sun 47 5533 3641 20 Mar (80) . 3 Tues 20 32 30 24 Feb (55) 6 Fr . 201 8686 3642 21 Mar (80) . 5 Thur. 2 45 0 14 Mar (73) 5 Thur . 296 5082 3643 21 Mar (80) . 6 Fr 8 57 30 3 Mar (62) 2 Mon . 172 1916 3644	21 Mar (80) .	2 Mon .	1	5	0	12 Mar (71) .	0 Sat	136 9086	3635		
20 Mar (80) . 5 Thur 19 42 30 9 Mar (69) 1 Sun 261 5469 3638 21 Mar. (80) 0 Sat 1 55 0 26 Feb (57) . 5 Thur. 137 2303 3639 21 Mar (80) 1 Sun 8 7 30 17 Mar (76) 4 Wed . 171 8699 3640 21 Mar (80) 2 Mon 14 20 0 6 Mar (65) . 1 Sun 47 5533 3641 20 Mar (80) 3 Tues 20 32 30 24 Feb (55) 6 Fr . 201 8686 3642 21 Mar (80) 5 Thur. 2 45 0 14 Mar (73) 5 Thur 206 5082 3643 21 Mar (80) 6 Fr 8 57 30 3 Mar (62) 2 Mon 172 1916 3644	21 Mar (80)	3 Tues	7	17	30	1 Mar (60)	4 Wed .	12-5920	3636		
21 Mar. (80) 0 Sat 1 55 0 26 Feb (57) 5 Thur. 137 2303 3639 21 Mar (80) 1 Sun 8 7 30 17 Mar (76) 4 Wed 171 8699 3640 21 Mar (80) 2 Mon 14 20 0 6 Mar (65) 1 Sun 47 5533 3641 20 Mar (80) 3 Tues 20 32 30 24 Feb (55) 6 Fr1 261 8686 3642 21 Mar (80) 5 Thur. 2 45 0 14 Mar (73) 5 Thur. 206 5082 3643 21 Mar (80) 6 Fr1 8 57 30 3 Mar (62) 2 Mon 172 1916 3644	21 Mar (80)	4 Wed	13	30	0	20 Mar (79)	3 Tues .	47-2316	3637		
21 Mar (80) . 1 Sun . 8 7 30 17 Mar (76) 4 Wed . 171 8699 3640 21 Mar (80) 2 Mon 14 20 0 6 Mar (65) . 1 Sun 47 5533 3641 20 Mar (80) . 3 Tues 20 32 30 24 Feb (55) 6 Fr . 201 8686 3642 21 Mar (80) . 5 Thur 2 45 0 14 Mar (73) 5 Thur . 296 5082 3643 21 Mar (80) . 6 Fr 8 57 30 3 Mar (62) 2 Mon . 172 1916 3644	20 Mar (80) .	5 Thur	19	42	30	9 Mar (69)	1 Sun	261 5469	3638		
21 Mar (80) 2 Mon 14 20 0 6 Mar (65) . 1 Sun 47 5533 3641 20 Mar (80) . 3 Tues 20 32 30 24 Feb (55) 6 Fri . 261 8686 3642 21 Mar (80) . 5 Thur. 2 45 0 14 Mar (73) 5 Thur . 296 5082 3643 21 Mar (80) . 6 Fri 8 57 30 3 Mar (62) 2 Mon . 172 1916 3744	21 Mar. (80)	0 Sat	1	55	0	26 Feb (57) .	5 Thur.	137 2303	3639		
20 Mar (80) . 3 Tues 20 32 30 24 Feb (55) 6 Fr . 261 8686 3642 21 Mar (80) . 5 Thur. 2 45 0 14 Mar (73) 5 Thur. 296 5082 3643 21 Mar (80) . 6 Fr 8 57 30 3 Mar (62) 2 Mon. 172 1916 3044	21 Mar (80) .	1 Sun .	8	7	30	17 Mar (76)	4 Wed .	171 8699	3640		
21 Mar (80) . 5 Thur. 2 45 0 14 Mar (73) 5 Thur . 296 5082 3643 21 Mar (80) 6 Fri 8 57 30 3 Mar (62) 2 Mon . 172 1916 3644	21 Mar (80)	2 Mon	14	20	0	6 Mar (65) .	1 Sun	47 5533	3641		
21 Mar (80) 6 Fri 8 57 30 3 Mar (62) 2 Mon . 172 1916 3044	20 Mar (80) .	3 Tues	20	32	30	24 Feb (55)	1				
	21 Mar (80) .	5 Thur.	2	45	0	` '		1			
21 Mar (80) . 0 Sat. 15 10 0 20 Feb (51) 6 Fr . 47 8749 3645		6 Fri			,	i i	ļ				
	21 Mar (80).	0 Bat.	15	10	_0	20 Feb (51)	6 Fri	47 8749	3045		

TABLE

					CONCU	RRENT Y	EAR			
		ama	year				Jovian sa	mvatsara.		Mean Intercalated (adhika) lunar
Kalı	Saka	Chattradt Vikrama	Mēshādı solar	ın Bengal	Kollam	A D	Southern system	Northern system		month
1	2	3	_ -;	3a	4	5	6	7		8a
3646 3647	467	6	02			*544 45 545 46 546 47		audra • urmatı undubhı		10 Pausha
3648 3649	460		04			547-48		udhırödgärın		
3650	47	Ì	106			*548 49	58 R	aktīksha .	- {	6 Bhādrapada
3651	47	1	307			549 50	59 K	Crōdhana		
3652	47	3	808			550 51	60 F	Tshaya	1	•
3053	47	4	609			551-5	2 1 F	Prabhava	1	3 Jycshtha .
3654	47	5	610			*552-5	2 7	/ibhava		
3055	4	ro	611			553 5	3 5	iukia •		11 Magha .
3656	4	77	612			554 5	5 4 1	Pramöda .		• •
3657	4	78	613			555 5	5 1	Prajāpati .	•	
365	B 4	79	614			*556-6	6.	Angiras		8 Kärttika .
365	9 4	80	615	!		557 (7	Śrīmukha .		
366	· }	81	616		\	558	59 8	Bhāva .	•	
360	1	182	617			559	· ·	Yuvan .	•	4 Ashādha
360		483	818			*560	1	Dhātri	• •	
36	. [484	619			561	1	Isvara	•	1 Obestan
	65	485 486	620 491			562	į.	Bahudhānya	•	1 Chaitra
	168	487	621 622			563 *564	}	Pramathin†	• •	10 Pausha
	367	488	623	ł		565		Vrisha Chitrabhānu		Torona
	668	480	624	1		566	1	Subhānu .		
3	869	490	628	1		{	1	Tārana		1
3	078	491	620	,	1	*568	Į.	Pārthiya	•	

[†] By I Arya Siddhants mean system 14 Vikrama was expunged, and A D 564 65 corresponded to 15 Vrishs. By the same authority (rue system A D 564 65 corresponded to 14 Vikrama, and 15 Vrisha was expunged A.D 565 66 was 16 Churabhanu by both systems

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1 Ārya Siddhānta, mean system.

	CO	MMENCEME	NT OF THE			
Mean :	SOLAR YEAR		Mean luni solar civil day on whic	YLAR (MEAN H CHAITRA SU	SUNRISE OF KLA 1 ENDS)	Kalı ycar.
Day and month, A D	Week-day	Time of mean Mêsha- samkrānti	Day and month, A.D	Week day	a (here=t, the index of the tithi)	
13	14	17	19	20	23	1
20 Mar (80) .	1 Sun.	H M S 21 22 30	10 Mar (70)	5 Thur	82 5145	3646
21 Mar (80)	3 Tues .	3 35 0	28 Feb (59)	3 Tues	296 8298	3647
21 Mar (80) .	4 Wed .	9 47 30	19 Mar (78) .	2 Mon	331 4694	3648
21 Mar (80)	5 Thur .	16 0 0	8 Mar (67)	6 Fri	207 1528	3649
20 Mar (80)	6 Fri	22 12 30	25 Feb (56)	3 Tues	82 8361	3650
21 Mar (80)	1 Sun	4 25 0	15 Mar (74)	2 Mon	117 4757	3651
21 Mar (80)	2 Mon	10 37 30	5 Mar (64)	0 Sat	331 7910	3652
21 Mar (80) .	3 Tues.	16 50 0	22 Feb (53)	4 Wed	207 4744	3653
20 Mar (80)	4 Wed	23 2 30	12 Mar (72)	3 Tues	242 1140	3654
21 Mar (80) .	6 Fra .	5 15 0	1 Mar (60)	0 Sat	117 7974	3055
21 Mar (80)	0 Sat .	11 27 30	20 Mar (79) .	6 Frı	152 4370	3656
21 Mar (80) .	1 Sun	17 40 0	9 Mar (68)	3 Tues	28 1204	3657
20 Mar (80)	2 Mon	23 52 30	27 Feb (58) .	1 Sun	242 4357	3658
21 Mar (80)	4 Wed	6 5 0	17 Mar (76) .	0 Sat .	277-0753	3659
21 Mar (80) .	5 Thur.	12 17 30	6 Mar (65)	4 Wed	152 7587	3680
21 Mar (80) .	6 Fri .	18 30 0	23 Feb (54) .	1 Sun	28 4421	3661
21 Mar (81)	1 Sun .	0 42 30	13 Mar (73)	0 Sat .	63 0817	3662
21 Mar. (80) .	2 Mon	ß 55 0	3 Mar (62) .	5 Thur .	277 3970	3663
21 Mar. (80) .	3 Tues .	13 7 30	20 Feb (51)	2 Mon	153 0803	3664
21 Mar (80)	4 Wed.	19 20 0	11 Mar (70) .	1 Sun	187 7200	3665
21 Mar (81)	6 Fm	1 32 30	28 Feb (59)	5 Thur	63 4034	3666
21 Mar (80) .	0 Sat .	7 45 0	18 Mar (77) .	4 Wed	98.0430	3667
21 Mar (80)	L Sun.	13 57 30	8 Mar (67)	2 Mon	312 3582	3668
21 Mar (80)	2 Mon.	20 10 0	25 Feb (56)	6 Frı	188 9416	3669
21 Mar (81).	4 Wed.	2 22 30	15 Mar. (75)	5 Thur	222 6813	3670

TABLE

				CONCU	RRENT YI	EAR		T	
		em.	year			<u> </u>	Samvatsara.		Mean Intercalated (adhika) lunar
Kah	Saka	Chaitrādi Vikrama	Meshadı solar ın Bengal	Kollam	A D.	Southern system	Norther system	n	month
1	2	- 3		4	5	6	7		8a
3671 3672 3673 3674 3675 3676 3677 3678 3679 3680	49 49 49 49 49 49 49 49 49 49 49 49 49 4	2 6 3 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	27 328 329 330 631 632 633 634 635 636 637		569-70 570-71 571-72 *572-7 573-7 574-7 575-7 *576-7 578-9 579	21 22 25 25 3 4 24 25 5 2 2 16 6 2 2 17 2 2 18 2 18 2 18 2 18 2 18 2 18	2 Sarvadhārin 3 Virōdhin . 4 Vikrita . 5 Khara . 6 Nandana . 7 Vijaya . 28 Jaya . 29 Manmatha		3 Jyêshtha . 11 Māgha . 8 Kārttika . 4 Āshādha .
368 368 368	3	503 504 505	638 639 640		*580- 581- 582	-82	81 Hēmalamba 32 Vilamba 33 Vikārin , .		1 Chartra •
36 36	85 86	508 507	641 642		583 *584	85	34 Sārvarın . 35 Plava .		
36	887 888 689	508 509 510	643 644 645		58	5 86 3 87 7-88	36 Subhakrit 37 Söbhana . 38 Krödhin .	•	0.71.53
3	690 691 8692	511 512 513	647		58	8 89 9 90 90-91	39 Viávāvasu 40 Parābhava 41 Plavanga	•	. 2 Varšākha
	3693 3694 3695	514 515 51	5 650		*5	91-92 92-93 93 94	42 Kilaka . 43 Saumya . 44 Sādhāraņa	•	. li Māgha .

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1 Ārya Siddhānta, mean system.

	CC	MMENCEME	ENT OF THE			
Mean	SOLAR YEAR.		MEAN LUNI SOLAR CIVIL DAY ON WHIC	YEAR (YEAN CH CHAITRA S	SUNRISE OF UKLA 1 ENDS)	Kalı year.
Day and month, A D	Week day.	Time of mean Misha sanikränti	Day and month,	Week day	a (here=t the index of the tithi)	
13	14	17	19	20	23	1
21 Mar (80)	5 Thur	H M S 8 35 0	4 Mar (63) .	2 Mon	98 3646	3671
21 Mar (80)	6 Fm .	14 47 30	22 Feb (53)	0 Sat	312 6799	3672
21 Mar (80)	0 Sat	21 0 0	12 Mar (71) .	5 Thur .	8 6876	3673
21 Mar (81) .	2 Mon	3 12 30	1 Mar (61)	3 Tues	223 0029	367 4
21 Mar (80)	3 Tues .	9 25 0	20 Mar (79)	2 Mon	257 6425	3675
21 Mar, (80)	4 Wed .	15 37 30	9 Mar (68)	6 Fr: .	133 3259	3676
21 Mar (80)	5 Thur .	21 50 0	26 Feb (57) .	3 Tues .	9 0092	3677
21 Mar (81) .	0 Sat	4 2 30	16 Mar (76) .	2 Mon	43 6488	3678
21 Mar (80)	1 Sun .	10 15 0	6 Mar (65)	0 Sat .	257 9641	3679
21 Mar (80).	2 Mon	16 27 30	23 Feb (54)	4 Wed .	133 6476	3680
21 Mar. (80) .	3 Tues	22 40 0	14 Mar (73) .	3 Tues	168 2871	3681
21 Mar. (81) .	5 Thur .	4 52 30	2 Mar (62) .	0 Sat	43 9705	3682
21 Mar. (80) .	6 Frı	11 5 0	20 Feb (51) .	5 Thur	258 2857	3683
21 Mar (80).	0 Sat .	17 17 30	11 Mar (70) .	4 Wed .	292 9254	3684
21 Mar (80)	1 Sun .	23 30 0	28 Feb (59)	1 Sun	168 6087	3685
21 Mar (81) .	3 Tues	5 42 30	18 Mar (78) .	0 Sat	203 2484	3686
21 Mar (80)	4 Wed	11 55 0	7 Mar (66)	4 Wed .	78 9317	3687
21 Mar (80).	5 Thur	18 7 30	25 Feb (56) .	2 Mon	293 2470	3688
22 Mar (81)	0 Sat	0 20 0	16 Mar (75) .	1 Sun	327 8867	3689
21 Mar (81).	1 Sun .	6 32 30		5 Thur	203 5700	3690
21 Mar (80) .	2 Mon	12 45 0		2 Mon .	79 2534	3691
21 Mar (80)	3 Tues .	18 57 30	1	1 Sun	113 8930	3692
22 Mar (81).	5 Thur .	1 10 0		3 Fri	328 2083	3693
21 Mar (81).	6 Fri	7 22 30	·	Wed	24 2160	369 4 3693
21 Mar (80)	0 Sat .	13 35 0	9 Mar (68) . 2	2 Mon	238 5313	

TABLE

	CONCURRENT YEAR												
		ıkrama	lar year		4.	JOVIAN SA	MVATSA BA .		Mean Intercalated (adhika) lunar				
Kalı.	Saka	Chattrādı Vıkrama	Mëshëdi solar ın Bengal	Kollam	A D.	Southern Northern system		•	month.				
•	2	3	3a	4	5	6	7		8a				
3696	517	652	1		594-95	45 V1r	odhakrit .	•	7 Āśvina				
3697	518	653	2		595 96	46 Pa	ndhāvin .	•	•••				
3698	510	654	3		*596 97	47 Pre	ımādın .	•					
3609	520	655	4		597-98	48 Ān	anda		4 Āshādha .				
3700	521	656	. 5		598 99	49 Rā	kshasa	•					
3701	522	657	6		599 600	50 An	ala		12 Phälguna .				
3702	523	658	7		*600-01	51 Pit	igala		.				
3703	524	659	8		601 02	52 Kā	layukta .						
3704	525	660	9		602 03	58 S ₁ d	dhārthın .		9 Mārgašīra .				
3705	526	661	10		603 04	54 Ra	udra	•	•••				
3706	527	662	11		*604 05	55 Du	rmati		••				
3707	528	668	12		605-06	56 Du	ndubh .		6 Bhādrapa da.				
3708	529	684	13		606 07	57 Ru	dhırödgärin		••				
8709	230	665	14		607-08	58 Ra	ktāksha .		•••				
8710	631	666	15		* 608 09 .	59 Kr	odhana .		2 Varšākha .				
3711 3712	532	667	16		609-10	60 Ks	haya		***				
3713	533	668	17		610-11	1 Pre	bhava		ll Māgha				
3714	534 535	669	18		611-12	2 V11	ohava	•	.				
3715	536	670	19		*612-13	3 Sal	kla		bee				
3716	537	671 672	-		613-14	4 Pre	mōda		7 Aivina				
8717	538	673	1	1	614-15	5 Pre	njāpatı		5 00				
3718	539	Į.	1		012-18	8 Až	дитая						
\$719	1	"		1	*616-17		mukha	ļ	4 Äshādhā				
3720		1	1	1	617-18	8 Rh			***				
-					618-19	9 Yu	VAR	•	12 Phälguna				

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1 Årya Siddhānta, mean system.

	C O1	umencemen	IT OF THE			
Миан в	OLAB YEAR.		Mean Luni-Solar Civil day on whic	YEAR (MEAN TH CHAITRA SU	SUNRISE OF KLA 1 ENDS)	Kali year.
Day and month, A D	Week-day.	Time of mean Mësha- samkränti	Day and month, A D.	Week-day.	a (here=t, the index of the tithi)	
13	14	17	19	20	23	1
21 Mar (80)	1 Sun .	H M S.	26 Feb (57) .	6 Fri	114 2147	3696
22 Mar. (81)	3 Tues .	2 0 0	17 Mar. (76)	5 Thur	148 8543	3697
21 Mar. (81)	4 Wed .	8 12 30	5 Mar (65)	2 Mon.	24 5377 -	3698
21 Mar (80)	5 Thur .	14 25 0	23 Feb (54)	0 Sat	238 8530	3699
21 Mar. (80)	6 Fn	20 37 30	14 Mar. (73)	6 Fm .	273 4926	3700
22 Mar (81)	1 Sun	2 50 0	3 Mar (62) .	3 Tues	149 1760	3701
21 Mar (81)	2 Mon.	9 2 30	21 Mar (81) .	2 Mon	183 8156	3702
21 Mar. (80)	3 Tues .	15 15 0	10 Mar (69).	6 Fm	59 4990	3703
21 Mar. (80)	4 Wed.	21 27 30	281Feb. (59) .	4 Wed	273 8142	3704
22 Mar. (81)	6 Fn	3 40 0	19 Mar. (78) .	3 Tues	308 4 539	3705
21 Mar. (81)	0 Sat	9 52 30	7 Mar (67) .	0 Sat	184 1373	370 6
21 Mar. (80)	1 Sun.	16 5 0	24 Feb (55) .	4 Wed .	59 8207	3707
21 Mar. (80)	2 Mon.	22 17 30	15 Mar. (74) .	3 Tues	94 4603	3708
22 Mar. (81)	4 Wed.	4 30 0	5 Mar (64) .	1 San	308 7756	3709
21 Mar (81)	5 Thur .	10 42 30	22 Feb. (53) .	5 Thur.	184 4589	3710
21 Mar. (80)	6 Fm .	16 55 0	12 Mar. (71)	4 Wed.	219 0985	3711
21 Mar (80)	0 Sat	23 7 30	l Mar. (60)	1 Sun	94.7819	3712
22 Mar (81)	2 Mon	5 20 O	20 Mar. (79)	0 Sat	129-4215	3713
21 Mar. (81)	3 Tues .	11 32 30	8 Mar. (68) .	4 Wed.	<i>5</i> 1049	3714
21 Mar (80)	4 Wed.	17 45 0	26 Feb (57) .	2 Mon	219-4201	3715
21 Mar. (80)	5 Thur .	23 57 30	17 Mar (76) .	1 Sun.	254-0597	3716
22 Mar (81)	0 Sat .	6 10 0	6 Mar (65) .	5 Thur.	129 7432	3717
21 Mar. (81)	1 Sun.	12 22 30	23 Feb (54) .	2 Mon .	5-4266	3718
21 Mar (80).	2 Mon .	18 35 0	13 Mar (72) .	1 Sun	40-0661	3719
22 Mar. (81)	4 Wed	0 47 30	3 Mar. (62) .	6 Fm.	254 3814	3720

TABLE

					CONC	URRE	NT YEA	R		_	
			rams	r year				Jovian sad	KVATBARA	_	Mean Intercalated (adhika) lunar
Kalı	Sak	:a.	Chatrādi Vikrams	Mëshadi solar in Bengal	Kollar	n A	LD	Southern system.	Northern system		month
1	2	3	3	3a	4		5	6	7	}	8a
3721	1	542	677	26			619 20 •620 <i>-</i> 21	10 Di	•		
3722	1	543	678 679	28			621-22	12 B	ahudhānya .	٠,١	9 Mārgašīra .
3723 3724	- 1	544 545	680	1	1	- 1	622-23	13 P	ramāthın .	•	
3725	1	546	681		1		623-24	14 V	ikrama	•	
3726	}	547	682		1	}	* 624-25	15 V	risha .	•	5 Śrāvana .
372	7	548	68	1	2	1	625-26	16 (Chitrabhānu .	•	
372	8	549	68	4 3	3	1	626 27	17 8	Subhānu .	•	
372	9	550	88	5 3	34	1	627-2	18 !	Tāraņa .	• •	2 Varšākhs .
373	30	551	L 68	36 :	35	1	*628-2	9 19 :	Pārthīva .	• •	
37	31	55	2 6	87	36	1	629 3	· 1	Vyaya .	• •	10 Pausha
87	32	55	3 6	88	27	}	830 3	_	Sarvajit .	• •	1 " 1
37	733	55	i4 6	189	38		631-3		Sarvadhārın	• •	7 Āévina
_	734	1	1	390	39		*632 3		Virodhn .	•	
_	735		1	891	40		633-		Vikrita . Khara	•	1 1
	1736 3737	1	- 1	692	41		634- 635		Nandana .		3 Jycshtha .
	3733	1	559	693	43		*636		Vijaya .		
	3739	ł	560	695	44		637		8 Jaya ,		. 12 Phâlguns .
	3740	- (561	696	45		}	1	9 Manmatha	•	
	3741		562	697	48		639	40 3	0 Durmukha	•	
	3743	2	583	699	47		*64)-41 3	l Hēmalamba	•	. 9 Mārgašura .
	374	1	584	599	48		64	1-42	2 Vilamba .	•	
	374	l l	565	700	49		64	\	33 Vikārın .	•	
	274	15	568	701	50		64	3-44	34 Särvarın .	•	. 5 Śrāvaņa .

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I Ārya Siddhānta, mean system.

	CO	IMENOMEN	T OF THE		·	
Mean	SOLAB YEAR.		MEAN LUNI-SOLAR CIVIL DAY ON WHIC			Kalı year
Day and month, A D	Week-day.	Time of mean Mésha- samkränti	Day and month,	Week-day	a (here=t, the index of the tithi)	
13	14	17	19	20	23	1
22 Mar. (81)	5 Thur	H M. S	22 Mar (81) .	5 Thur.	289 0209	3721
21 Mar (81)	6 Fn	13 12 30	10 Mar. (70)	2 Mon	164 7044	3722
21 Mar (80)	O Sat .	19 25 0	27 Feb (58) .	6 Fn.	40 3877	3723
22 Mar (81)	2 Mon.	1 37 30	18 Mar (77)	5 Thur .	75 0274	3724
22 Mar (81)	3 Tues .	7 50 0	8 Mar (67) .	3 Tues	289 3427	3725
21 Mar. (81)	4 Wed.	14 2 30	25 Feb (56) .	0 Sat.	165 0261	3726
21 Mar. (80)	5 Thur	20 15 0	15 Mar (74) .	6 Fm	199 6657	3727
22 Mar (81) .	O Sat .	2 27 30	4 Mar (63) .	3 Tues.	75 3491	3728
22 Mar (81)	1 Sun .	8 40 0	22 Feb (53) .	1 Sun .	289 6643	3729
21 Mar (81)	2 Mon	14 52 30	12 Mar (72) .	0 Sat .	324 3039	3730
21 Mar. (80)	3 Tues .	21 5 0	1 Mar (60) .	4 Wed.	199 9873	3731
22 Mar. (81)	5 Thur	3 17 30	20 Mar (79) .	3 Tues .	234 6269 `	373 2
22 Mar (81)	6 Fra .	9 30 0	9 Mar (68) .	0 Sat	110 3103	3733
21 Mar (81)	0 Sat .	15 42 30	27 Feb (58) .	5 Thur .	324 6256	3734
21 Mar (80)	1 Sun .	21° 55 0	16 Mar (75) .	3 Tues .	20 6333	3735
22 Mar (81)	3 Tues	4 7 30	6 Mar (65) .	1 Sun .	234 9486	3736
22 Mar (81).	4 Wed .	10 20 0	23 Feb (54) .	5 Thur.	110 6320	3737
21 Mar (81)	5 Thur	16 32 30	13 Mar. (73) .	4 Wed	145 2716	3738
21 Mar (80)	6 Fm	22 45 0	2 Mar (61) .	1 Sun .	20 9550	3739
22 Mar (81) .	1 San	4 57 30	21 Mar (80) .	0 Sat .	55 5946	3740
22 Mar (81) .	2 Mon.	11 10 0	11 Mar (70) .	5 Thur	269 9099	3741
21 Mar. (81) .	. 3 Tues.	17 22 30	28 Feb (59) .	2 Mon .	145 5933	3742
21 Mar. (80) .	4 Wed	23 35 0	18 Mar. (77) .	1 Sun .	180 2329	3743
22 Mar. (81) .	. 6 Fn.	5 47 30	7 Mar. (66) .	5 Thur .	55-9163	8744
22 Mar. (81) .	. 0 Sat.	12 0 0	25 Feb (56) .	3 Tues .	270 2316	3745

TABLE

_				CONCUE	RRENT YE	AR				-
Kalı	Saka	Chattrādı Vikrama	Meshadı solar year ın Bengal	Kollam	A.D	JOVIAN SAMVATSARA. A.D Southern Northern system system.			Mean Intercalated (adhika) luna month	r
		Chai	Mēs n					•		
1	2	3	3a	4	5	6	7.		8a	
3746	567	702	51		*644 45	35 Pla	.va .	•	• •	
3747	568	703	52		645-46	36 Sul	bhakqıt		•••	
3748	569	704	53		646 47	37 Sõi	bhana .		2 Vaišākha	
3749	570	705	54		647-48	38 Kr	ōdhın .			
3750	571	706	55		*648 49	39 Vı	vāvasu		10 Pausha	
3751	572	707	56		649-50	40 Pa	rābhava†		•••	
3752	573	708	57		650 51	42 K	lala .		-++	
3753	574	709	58		651 52	43 Sa	umya .		7 Āśvina	
3754	575	710	59		*652 53	44 Sād	dhārana	. ,	••	1
3755	576	711	60		653 54	45 V:	rödhakrıt		•••	
3756	577	712	61		654 55	46 Pa	ndhāvin	. ,	3 Jyčshtha	
3757	578	713	62		655 56	47 Pra	ımādın		••	
3758	579	714	63		*656 57	48 Ān	anda .	. ,	12 Phālguna	
3759	580	715	64		657-58	49 Rā	kshasa .	. ,		
3760	581	716	65		658 59	50 Am	ala .		•	
3761	582	717	66		659 60	51 Pı	ngala .		8 Kārttika	
3762	583	718	67		*660 61	52 Kā	layukta		•••	
3763	584	719	1		661-62	53 Sid	ldhärthın	. ,	• •	
3764 3765	585	720	1	1	662-63	54 Ra	udra .		5 Srāvaņa	
3766	586	721	70	1	663 64	55 Du	ırmatı .		***	
3767	1	722		1	*664, 65	56 Dq	րդժախիլ		•••	
3768	1	723	1	1	665 66	57 Ru	dhırödgärın		1 Chartra	
3769	1 -55	724	. '		666 67	58 Ra	ķtāksha		• •	
3770	,	725	1	i	667-68	59 Kr	ōdhana		10 Pancha	.
	1 3	726	75		*668-69	60 Ks	hays .		•••	•

[†] By the mean system 41 Playanga was expunged, as also by the true system.

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1 Ārya Siddhānta, mean system.

				NOT		m or give		rya Siddhānta,	incan system
			MALE	NCE	enie:	T OF THE			
Mg	AN :	SOLAB YEAR				Mean Luni-solar c.vil day on whic			Kalı year.
Day and mont	h,	Week day	mea	ime in M nkrā	ësha-	Day and month, Week da		a (here=t, the index of the tithi)	
13		14		17		19	20	23	1
21 Mar (81) .		1 Sun .	II 18	M 12	8	15 Mar (75)	2 Mon	304 8711	3746
22 Mar (81) .	•	3 Tues	0	25	0	4 Mar (63)	6 Frı	180 5545	3747
22 Mar (81) .		4 Wed	6	37	30	21 Feb (52)	3 Tues	56 2378	3748
22 Mar (81) .	:	5 Thur.	12	50	0	12 Mar. (71)	2 Mon .	90 8775	3749
21 Mar (81) .	•	6 Fri	19	2	30	1 Mar (61) .	0 Sat	305 1927	3750
22 Mar. (81) .		1 Sun .	1	15	0	19 Mar. (78)	5 Thur .	1 2005	3751
22 Mar (81).		2 Mop .	7	27	30	9 Mar (68) .	3 Tues	215 5157	3752
22 Mar (81) .		3 Tues	13	40	0	26 Feb (57) .	0 Sat	91 1991	3753
21 Mar (81)	•	4 Wed.	19	б2	30	16 Mar (76) .	6 Fri	125 8387	3754
22 Mar (81)	•	6 Frı	2	5	0	5 Mar (64) .	3 Tues	1 5221	3755
22 Mar (81).	•	O Sat .	8	17	30	23 Feb (54) .	1 Sun	215 8374	3756
22 Mar (81).	•	1 Sun .	14	30	0	14 Mar (73) .	0 Sat	250 4770	375 7
21 Mar (81)	•	2 Mon .	20	42	30	2 Mar (62) .	4 Wed .	126 1604	3758
22 Mar (81) .	•	4 Wed	2	55	0	21 Mar (80) .	3 Tues.	160 8000	3759
22 Mar (81) .	•	5 Thur .	9	7	30	10 Mar (69) .	0 Sat.	36 4834	3760
22 Mar (81) .	•	6 Fm .	15	20	0	28 Feb (59) .	5 Thur	250 7987	3761
21 Mar (81).	•	0 Sat .	21	32	30	18 Mar (78)	4 Wed .	285 4383	3762
22 Mar (81).	•	2 Mon	3	45	0	7 Mar (68)	1 Sun	161 1217	3763
22 Mar. (81) .	•	3 Tues	9	57	30	24 Feb (55) .	5 Thur .	36 8051	3764
22 Mar. (81)	•	4 Wed .	16	10	0	15 Mar (74)	4 Wed.	71 4447	3765
21 Mar (81).	•	5 Thur .	22	22	30	4 Mar (64) .	2 Mon	285 7599	3766
22 Mar (81) .	•	0 Sat .	4	35	0	21 Feb (52) .	6 Fr	161 4433	3767
22 Mar (81).	•	1 Sun .	10	47	30	12 Mar (71) .	5 Thur	196 0830	3768
22 Mar (81).	•	2 Mon .	17	0	0	1 Mar (60) .	2 Mon .	71 7663	3769
21 Mar (81)	•	3 Tues	23	12	30	18 Mar (78) .	1 Sun	106 4060	3770

TABLE

				CONC	URRENT Y	EAR			
Kalı	Sahn	Chaitrādi Vikrama	Mčshūdi solar yoar in Bengal	Kollam	A.D	Jovian sat	Northern system		Mean Intercalated (adhika) lunar month
1	2	3	31	4	5	6	7		
		'						—	
3771	592	727	76		669-70	1 Pre	bhava .	;	
3772	593	728	77		670 71	2 Vil	ohava .	•	6 Bhādrapada
8773	594	729	78		671 72	3 Sul	la .	,	
3774	595	730	79		*672-73	4 Pra	ımōda .		_
3775	596	731	80		673-74	5 Pra	ijāpati .	•	3 Jyēshtha .
3776	597	732	81		674 75	6 An	giras		
3777	598	733	82		675 76	7 Srī	mukha.	•	ll Māgha .
3778	599	734	83		*676-77	8 Bh	āva .		
3779	600	735	84		677-78	9 Yu	van		
3780	601	736	85		678 79	10 Dh	ātrı		8 Kārttika
3781	602	737	86		679-80	11 I śv	āra		
2782	603	738	87		*680 81	12 Bal	hudhānya		_
3753	604	739	88		681-82	13 Pra	mäthin		5 Srāvana
3784	607	740	89		682 83	14 Vik	rama .		0.01010110
3785	606	741	90		683-84	15 V <u>r</u> 1			
3765	607	742	91		*684 85	_	trabhānu		1 Chaitra
3757	603	743	92		685 86		ohānu		2 Onaima .
3788	603	744	93		686 87		гаџа .		10 Pausha
2753	610	745	94		687-88		thiva		TO I ausua
2790	611	746	95		*688 89		aya .	•	
3721	612	747	96		689 90		vajit .		6 Dheama
2772	613	749	97		690 91		vadhārın		6 Bhādrapada
3793		749	99		691 92		ōdhin .	•	
3776	1	750	1		*692 93		enta .	•	9 7
3795	616	751	100		693 94	25 Kb	•		3 Jyēshtha

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1 Ārya Siddhānta, mean system

						ı Ar,	a Siddhānta, 1	nean system
	CO	MME	NCE	ME	T OF THE			
Mean s	SOLAR LEAR		Mean luni solar year (mean sunrise of civil day on which Chaitra Šukla 1 lnds)					
Day and month, A D	Week day	mea	me d n Mê nkrâi	3ha	Day and month,	Week day	a (here=t, the index of the tithi)	Kalı year.
13	14		17		19	20	23	1
22 Mar (81)	5 Thur	H 5	M 25	S 0	9 Mar (68)	6 Fri	320 7213	3771
22 Mar (81)	6 Frı	11	37	30	26 Feb (57)	3 Tues	196 4046	3772
22 Mar (81)	0 Sat	17	50	0	17 Mar (76) .	2 Mon	231 0442	3773
22 Mar (82)	2 Mon	0	2	30	5 Mar (65)	6 Fri	106 7276	3774
22 Mar (81)	3 Tues	6	15	0	23 Feb (54)	4 Wed	321 0429	377ბ
22 Mar (81) .	4 Wed	12	27	30	13 Mar (72)	2 Mon	17 0506	3776
22 Mar (81) .	5 Thur	18	40	0	3 Mar (62)	0 Sat	231 3658	3777
22 Mar (82)	0 Sat	0	52	30	21 Mar (81)	6 Frı	266 0054	3778
22 Mar (81).	1 Sun	7	5	0	10 Mar (69)	3 Tues	141 6888	3779
22 Mar (81) .	2 Mon	13	17	30	27 Feb (58)	0 Sat	17 3723	3780
22 Mar (81)	3 Tues	19	30	0	18 Mar (77)	6 Frı	52 0118	3781
22 Mar (82)	5 Thur	1	42	30	7 Mar (67)	4 Wed	266 3271	3782
22 Mar (81)	6 Trı	7	55	0	24 Feb (55)	1 Sun	142 0105	3783
22 Mar (81) .	0 Sat	14	7	30	15 Mar (74)	0 Sat	176 6501	3784
22 Mar (81)	1 Sun	20	20	0	4 Mar (63)	4 Wed	52 333 4	3785
22 Mar (82)	3 Tues	2	32	30	22 Feb (53)	2 Mon	266 6487	3786
22 Mar (81)	4 Wed	8	45	0	12 Mar (71)	1 Sun	301 2884	3787
22 Mar (81) .	5 Thur	14	57	30	1 Mar (60)	5 Thu	176 9717	3788
22 Mar (81) .	6 Fri	21	10	0	20 Mar (75)	4 Wed	211 6114	3789
22 Mar. (82)	1 Sun	3	22	30	8 Mar (68) .	1 Sun	87 2948	3790
22 Mar (81)	2 Mon	9	35	0	26 Feb (57)	6 F11	301 6100	3791
22 Mar (81) .	3 Tues	15	47	30	16 Mai (75)	4 Wcd	0997 6177†	3792
22 Mar (81)	4 Wed .	22	0	0	6 Mar (65)	2 Mon	211 9330	3703
22 Mar (82)	6 Fri	4	12	30	23 Teb (54)	6 Tu	87 0104	3794 3795
22 Mar (81)	0 Sat	10	25	0	13 Mar (72)	57hur .	122 2560	0.30

[†] As a mean tithi Chaitra Sukla I was expunsed. The civil day corresponding to it, i.e., the first day of the mean luni solar year, was as given in cols 19, 20

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		`s :			*	والمراجعة والمادية وا	ng mga ng mga ng mga ng mga ng
3770	ri	1	; ;		, A , 7,		e e e
3797) 374-) 37 <i>2</i> 9 (kin	'1 1 '1 1			* 1 * * * * * * * * * * * * * * * * * *	-	
340	ros 7	, A		e e b y y * \$	eshk A fasc he		
2-01 2-10	f24 }	•	1 · 1 · 1	* 1	**		
3503 3503	e26 ,	7/2	į	**	t fire		2 % 1 gas 12
3507 3509 3509	{	764 : 764 :	113	* * * * * * * * * * * * * * * * * * *	* \$ 4* CF #		1 1 4 1 2 1
3910 3911	631 632	202	115	** - tu	\$ \$ 27.5 50 6 \$\$ \$7.69 65 5		rt i niti
3812 3813 3814	633 674 035	764 767 770	117 114 110	711 12 \ 4712 13 \	\$2 \$1 s\$n \$5 \$2 x m; \$8 \$ 15\$245 \$1		2 V2 133° x
3915 3816	636 637	771 772	120 121	713 14	an dientrades		te stegt e .
3817 8818 3810	039	773 774 778	122 123 124	715 16 *716 17 717 18	45 Aranta ,		A Kansikan
382		776	125	715 10	W Areis .	ياني امال جا ^{نا} دويوالمانايا	and the second straight of the Chinal of Second Sec

[†] By the " Indian Calendar " 7 Airina was intervalated but the case was a close or a

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1 Ārya Siddhānta, mean system.

COMMENCEMENT OF THE MEAN SOLAR YEAR MEAN LUNI-SOLAR YEAR (MEAN SUNRISE OF OTVIL DAY ON WHICH CHAITRA SURLA 1 ENDS) Kalt year Day and month, A D Wock-day Time of mean Mcsha samkrāntı Day and month, A D Week-day. 13 14 17 19 20 23 1 H M S 16 37 30 2 Mar. (61) 2 Mon 9997 9394† 3796
Day and month, Week-day Time of mean Mesha samkranti Day and month, A D Week-day. The index of the tithi) 13 14 17 19 20 23 1 H M S
Day and month, Week-day Rime of mean Mcsha-samkranti Day and month, AD Week-day. Time of mean Mcsha-samkranti Day and month, AD Week-day. The index of the tithi)
H M S
22 Mar (81) . 2 Mon 22 50 0 21 Mar (80) 1 Sun 32 5790 3797
22 Mar (82) 4 Wed. 5 2 30 10 Mar (70) . 6 Fri . 246 8943 3790
22 Mar (81) 5 Thur . 11 15 0 27 Feb (58) 3 Tues 122 5777 3790
22 Mar (81) 6 Fr 17 27 30 18 Mar (77) . 2 Mon 157 2173 3800
22 Mar (81) 0 Sat . 23 40 0 7 Mar (66) 6 Fr 32 9006 380
22 Mar (82) 2 Mon . 5 52 30 25 Feb (56) 4 Wed . 247 2159 380
22 Mar (81) 3 Tues . 12 5 0 15 Mar. (74) . 3 Tues 281 8555 3803
22 Mar (81) 4 Wed 18 37 30 4 Mar (63) 0 Sat . 157 5389 380
23 Mar (82) . 6 Fr. 0 30 0 21 Feb (52) 4 Wed ; 33 2223 3800
22 Mar (82) 0 Sat 6 42 30 11 Mar (71) 3 Tues 67 8619 3800
22 Mar (81) 1 Sun 12 55 0 1 Mar. (60) 1 Sun. 282 1771 380
22 Mar (81) 2 Mon 19 7 30 20 Mar (79) 0 Sat 316 8168 3806
23 Mar. (82) . 4 Wod 1 20 0 9 Mar. (68) . 4 Wed 192 5002 3800
22 Mar (82) . 5 Thur 7 32 30 26 Feb (57) . 1 Sun 68 1835 3816
22 Mar (81) 6 Fr: 13 45 0 16 Mar (75) 0 Sat . 102 8231 381
22 Mar (81) 0 Sat 19 57 30 6 Mar (65)] . 5 Thur . 317 1384 381
23 Mar. (82) 2 Mon 2 10 0 23 Feb (54) . 2 Mon 192 8218 3813
22 Mar (82) 3 Tues 8 22 30 13 Mar (73) . 1 Sun . 227 4614 3814
22 Mar (81) 4 Wed 14 35 0 2 Mar (61) . 5 Thur . 103 1447 3816
22 Mar (81) 5 Thur 20 47 30 21 Mar. (80) . 4 Wed 137 7843 3810
23 Mar (82) 0 Sat . 3 0 0 10 Mar (69) 1 Sun . 13 4678 381
22 Mar (82) . 1 Sun 9 12 30 28 Feb (59) 6 Fri. 227 7831 3810
22 Mar (81) . 2 Mon . 15 25 0 18 Mar (77) . 5 Thur 262 4226 3816
22 Mar (81) . 3 Tues . 21 37 30 7 Mar (66) . 2 Mon . 138 1060 3820

As a mean tithi Chaitra Sukla I was suppressed The civil day corresponding to it, s.e, the first day of the mean luni-solar year, was as given in cols. 19, 20

TABLE

_									
Kalı	Saka	Vıkrama	solar year al	Kollam	AD	Jovian sai	JOVIAN SAMVATSARA		Mean Intercalated (adhika) lunar
		Chattradı Vıkrama	Mēshādı solar ın Bengal		AD	Southern system	Northern system		month
1	2	3	3a	4	5	8	8		8a
3821	642	777	126		710.00	7	_		<u></u>
3822	643]			719 20	51 Pin	-	•	4 Āshādha
3823	644	778 779	127		*720 21	•	layukta .		•
3824	645	779	128		721 22		dhārthın .		
3825	646	781	129		722 23	54 Ra	•	•	1 Chaitra
3826	647	782	130		723 24	55 Du			•
3827	648	783	131 132		*724 25	56 Du			9 Mārgasīra
3828	649	784	132	'	725-26		dhırödgärın		
3829	650	785	134		726 27		ktāksha .		•
3830	651	786	135		727-28		odhana .		6 Bhādrapada
3831	652	787	136		*728 29 729-30	60 Ks1			
3832	653	788	137		729-30		bhava	٠	
3833	654	789	138		730 31	2 Vib	•	•	2 Vaišākha
3834	655	790	139	ļ	*732 33	3 Suk	•		
3835	656	791	140		733 34	4 Pra		٠	11 Māgha
3836	657	792	141		734 35		jāpatı		•
3837	658	793	142		735 36	6 Ang	•	٠	
3838	659	794	143		*736 37	8 Bhi			7 Aśvina .
3839	660	795	144		737-38	9 Yu 10 Dhi	· · · · · · · · · · · · · · · · · · ·		
3840	661	796	145	1	738 39	10 Dno	• •	l	
3841	662	797			739 40		udhānya .	ı	4 Āshādha .
3842 3843	330	798			*740 41		māthin .	l	10 71 -
3844	1 302		1 -=0		741-42	14 V1k	_	.	12 Phālguna .
3845	1 000	"	-20	1	742-43	15 Vr.	•	Ì	••
	000	801	150	1	743 44		trabhānn		9 Mārgašīra

[†] By the mean system, as well as by the true system, 7 Śrīmukha was expunged.

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1 Arya Siddhanta, mean system.

COMMENCEMENT OF THE								
Mean s	OLAR YEAR		Meay Luni-solar Civil day on which	Kalı year				
Day and month, A D	Week day	Time of mean Mêsha samkrânti	Day and month, A D,	Week day	a (here=t, the index of the titlu)			
` 13	14	17	19	20	23	1		
23 Mar (82)	5 Thur	H M S	24 Teb (55)	6 Fr1	13 7894	3821		
22 Mar (82) .	6 Fr1.	10 2 30	14 Mar (74)	5 Thur	48 4290	3822		
22 Mar (81)	0 Sat .	16 15 0	4 Mar (63)	3 Tues	262 7443	3823		
22 Mar (81)	1 Sun	22 27 30	21 Feb (52)	0 Sat	138 4276	3824		
23 Mar (82)	3 Tues .	4 40 0	12 Mar (71)	6 Fri	173 0673	3825		
22 Mar (82)	4 Wed.	10 52 30	29 Feb (60)	3 Tues	48 7506	3826		
22 Mar (81)	5 Thur.	17 5 0	10 Mar (78) .	2 Mon	83 3903	3827		
22 Mar (81) .	6 Frı	23 17 30	9 Mar (68) .	0 Sat	297 7055	3828		
23 Mar (82)	1 Sun	5 30 0	26 Feb (57)	4 Wed .	173 3890	3829		
22 Mar (82)	2 Mon .	11 42 30	16 Mar (76) .	3 Tues .	208 0286	3830		
22 Mar (81) .	3 Tues	17 55 0	5 Mar (64)	0 Sat.	83 7119	3831		
23 Mar (82) .	5 Thur	0 7 30	23 Feb (54)	5 Thur	298 0272	3832		
23 Mar (82)	6 Frı	6 20 0	14 Mar (73) .	4 Wed	332 6669	3833		
22 Mar (82)	0 Sat	12 32 30	2 Mar (62)	1 Sun	208 3502	3834		
22 Mar (81) .	1 Sun .	18 45 0	21 Mar (80)	0 Sat .	242 9898	3835		
23 Mar (82) .	3 Tues	0 57 30	10 Mar (69)	4 Wed .	118 6732	3836		
23 Mar (82) .	4 Wed	7 10 0	28 Feb (59)	2 Mon	332 9885	3837		
22 Mar (82)	5 Thur .	13 22 30	17 Mar (77)	0 Sat .	28 9962	3838		
22 Mar (81) .	6 Fri .	19 35 0	7 Mar (66)	5 Thur .	243 3115	3839		
23 Mar (82)	1 Sun	1 47 30	24 Feb (55) .	2 Mon	118 9949	3840		
23 Mar (82) .	2 Mon .	8 0 0	15 Mar (74) .	1 Sun	153 6345	3841		
22 Mar (82)	3 Tues .	14 12 30	3 Mar (63)	5 Thur	29 3179	3842		
22 Mar (81) .	4 Wed	20 25 0	22 Mar (81)	4 Wed .	63 9575	3843		
23 Mar (82)	6 Fri	2 37 30	12 Mar (71) .	2 Mon .	278 2728	3844		
23 Mar (82)	0 Sat .	8 50 0	1 Mar (60)	6 Fra. •	153 9561	3845		

TABLE

	CONCURRENT YEAR.									
Kalı	Saka	Chaitrādi Vikrama	Mcshādi solar year ın Bengal	Kollam	A D	Southern Northern		Mean Intercalated (adhika) lunar month		
		Chart	Meshii in J			system system				
1	2	3	3 a	4	5	6 7		8a		
3846	667	802	151		*744 45	,17 Subhānu .				
3947	890	803	152	}	745 46	18 T ñ	rana .			
3848	669	804	153		746 47	19 Pā	rtinva		5 Śrāvaņa .	
3849	670	805	154		747 48	20 V _J	nya			
3850	671	806	155		*748 49	21 Sarvajit				
3851	672	807	156		749 50	22 Sarvadhārın		2 Vaišākha .		
3852	673	808	157		750 51	23 Virödlun .				
3853	674	809	158		751-52	24 Nikrita		10 Pausha .		
3854	675	810	159		*752 53	25 Khara				
3855	676	811	160		753 54	26 Nandana				
3856	677	812	161		754 55	27 Vijaya .		•	7 Aśvina .	
3857	678	813	162	:	755 56	28 Jaya				
3858	}	814	163		*756 57	29 Manmatha		•		
3859	}	}	5 164	ı \	757 58	30 D	urmukha .	•	4 Āshādha .	
3860	1	1	{	5	758 59	31 H	émalamba			
3861	1	-	7 16	8	759 60	32 V	ilamba .		12 Pháiguna .	
3869	. 1	- {	1	j,	*760 61	33 V	ıkārın .	•		
386: 386		1	1	1	761 62	34 Särvarın .				
386			1	- 1	762 63	35 Plava		9 Mārgaéara .		
386	_ }	. {	. } -		763 64	36 Subhakrit		•••		
380			22 17	3	*764 68	1	öbhana	•		
38	`	1	- 1	72	765 66	-	Crōdhin	•	5 Śrāvaņa .	
38	}	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	- 1	73 74	766 6		Viévāvasu .	•	••	
38	_ [1 -	. -	75	767-6 *768 6	.]	Parābhava .	•		
~			1		708 6	41]	Plavanga	• •	2 Vaišākha .	

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1 Ārya Siddhānta, mean system.

				 	s siddnandr, n	
	CO	MMENCEMEN	IT OF THE			
Mean s	OLAR YEAR		Mean luni-solar civil day on which	Kalı year.		
Day and month, AD	Week day.	Time of mean Misha- samkränti	Day and month,	Week-day	a (here=t, the index of the tithi)	
13	14	17	19	20	23	1
22 Mar (82)	1 Sun.	H M S	19 Mar (79)	5 Thur	188 5957	3846
22 Mar (81) .	2 Mon .	21 15 0	8 Mar (67)	2 Mon	64 2790	3847
23 Mar (82)	4 Wed .	3 27 30	26 Feb (57)	0 Sat	278 50 44	3848
23 Mar (82)	5 Thur.	9 40 0	17 Mar (76)	6 Frı	313 2341	3849
22 Mar (82)	6 Fr: .	15 52 30	5 Mar (65)	3 Tues	188 9173	3850
22 Mar. (81)	0 Sat .	22 5 0	22 Feb (53)	0 Sat	64 6007	3851
23 Mar (82) .	2 Mon	4 17 30	13 Mar (72) .	6 Frı	99 2404	3852
23 Mar. (82) .	3 Tues	10 30 0	3 Mar (62)	4 Wed	313 5556	3853
22 Mar (82) .	4 Wed.	16 42 30	20 Mar. (80)	2 Mon	9 5633	3854
22 Mar (81)	5 Thur .	22 55 0	10 Mar (69)	0 Sat	223 8786	3855
23 Mar (82)	0 Sat .	5 7 30	27 Feb (58)	4 Wed	99 5620	3856
23 Mar (82)	1 Sun	11 20 0	18 Mar (77)	3 Tues	134 2016	3857
22 Mar (82)	2 Mon	17 32 30	6 Mar (66)	0 Sat	9 8850	3858
22 Mar (81) .	3 Tues	23 45 0	24 Feb (55)	5 Thur	224 2003	3859
23 Mar (82) .	5 Thur .	5 57 30	15 Mar (74)	4 Wed	258 8399	3860
23 Mar (82)	6 Fri	12 10 0	4 Mar (63)	1 Sun	134 5233	3861
22 Mar (82) .	0 Sat	18 22 30	22 Mar (82)	0 Sat	169 1628	386 2
23 Mar (82) .	2 Mon	0 35 0	11 Mar (70)	4 Wed	44 8463	3863
23 Mar (82)	3 Tues	6 47 30	1 Mar (60)	2 Mon	259 1616	3864
23 Mar (82)	4 Wed .	13 0 0	20 Mar (79) .	1 Sun.	293 8012	3865
22 Mar (82)	5 Thur .	10 12 30	8 Mar (68)	5 Thur	169 4846	3866
23 Mar (82) .	0 Sat .	1 25 0	25 Feb (56) .	2 Mon.	45 1680	3867
23 Mar (82)	1 Sun	7 57 30	16 Mar (75)	Sun	79 8076	3868
23 Mar /82)	2 Mon .	13 50 0	6 Mar (65)	6 Fri	294 1228	3869
22 Mar. (82)	3 Tues	20 2 30	23 Feb (51)	3 Tues	169 8062	3870

TABLE

	CONCURRENT YEAR												
Kalı	Saka	Chastradı Vikrama	Meshiidi solar year in Bengal	Kollam	A D	JOVIAN SA Southern system	Northern system	Mon Intercal ited (adhika) lunar month					
) ME										
1	2	3	311	4	5	G	î	Fa					
3871	692	827	150										
3872	1		176		769 70	12 K ₁ 1							
	693	828	177		770 71	43 Sau	ımya .	10 Pausha					
3873	694	829	178		771-72	44 Sid	lhärana .						
3874	695	830	179		*772-73	45 V ₁ r	ôdhakrit .						
3875	696	831	180		773 74	46 Par	ndhävin	7 Льчив					
3876	697	832	181		774 75	47 Pra	mādin						
3877	698	833	182		775 76	18 Ān	anda						
3878	699	834	183		*776 77	49 Ril	kshner	3 Jröslithn					
3879	700	833	184		777 78	50 Ans	nln .						
3880	701	836	185		778 79	51 Pip	gnîn	12 Pnälguna					
3881	702	837	186		779 80	52 Kāl	lavukta						
3882	703	838	187		*780 81	53 Side	dhirthn	1					
3883	704	839	188		781-82	54 Ray	ıdrı	8 Kürttika					
3884	703	840	189		782 83	55 Du	rmatı .	1					
3885	706	841	190		783 84	56 Dur	_]					
3886	707	842	191		*784-85		llurödgirın	5 Śrāvana					
3887	708	843	192		785 86		tüksha .	o Gravana					
3888	709	844	103		780 87	59 Krč	•	1 1					
3889	710	845	194		767 88	60 Ksl		1					
3890	711	846	193		*788 89		bhava .	1 Chaitra					
3891	712	847	196		789 90	2 Vib		1,00					
3892	713	848	197		790 91	3 Sul	-	10 Pausha					
3893	714	849	198		791-92		moda .	[
3894	715	850	199		*792 93		Jāpatı .	1					
8895	716	851	200	}	793 94		71 ma a	7 Aśvinaj					
		†	By the	" Indian	\	8 Bhādrapada was m							

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1 Ārya Siddhānta, mean system.

COMMENCEMENT OF THE											
Mean s	OLAB YEAR				Meay Luni-solar civil day on whic	Kalı year.					
Day and month, A.D	Week-day	mea	me n Mi akrā	isha	Day and month, A:D.	Week-day	a (here=t, the index of the tithi)				
13	14		17		19	20	23	1			
		H	M	s							
23 Mar (82)	5 Thur	2	15	0	13 Mar (72) .	2 Mon	204 4459	3871			
23 Mar (82)	6 Fr	8	27	30	2 Mar (61) .	6 Fm .	80 1292	3872			
23 Mar (82)	0 Sat	14	40	0	21 Mar. (80)	5 Thur	114 7688	3873			
22 Mar (82)	1 Sun	20	52	30	10 Mar (70)	3 Tues	329 0841	387 4			
23 Mar (82) .	3 Tues	3	5	0	27 Feb (58)	0 Sat	204 7675	3875			
23 Mar (82) .	4 Wed	9	17	30	18 Mar (77) .	6 Frı	239 4071	3876			
23 Mar (82)	5 Thur.	15	30	0	7 Mar (86) .	3 Tues	115 0904	3877			
22 Mar (82) .	6 Fn	21	42	30	25 Feb (56) -	1 Sun .	329 4057	3878			
23 Mar (82) .	l Sun .	3	55	a	14 Mar (73)	6 Fra .	25 4134	3879			
23 Mar (82)	2 Mon .	10	7	30	4 Mar (63)	4 Wed	239 7288	3880			
23 Mar. (82) .	3 Tues	16	20	٥	23 Mar (82)	3 Tues	274 3682	3881			
22 Mar (82)	4 Wed	22	32	80	11 Mar (71)	0 Sat	150 0517	3882			
23 Mar (82) .	6 Fn	4	45	0	28 Feb (59) .	4 Wed	25 7351	3883			
23 Mar (82)	0 Sat	10	57	30	19 Ma~ (78) .	3 Tues	60 3747	3884			
23 Mar (82)	1 Sun	17	10	0	9 Mar (68)	1 Sun	274 8900	3885			
22 Mar (82)	2 Mon	23	22	30	26 Feb (57) • .	5 Thur	150 3734	3886			
23 Mas. (82)	4 Wed	5	35	0	16 Mar (75)	4 Wed .	185 0130	3887			
23 Mar (82) .	5 Thur	11	47	30	5 Mar (64)	I Sun	60 6963	3888			
23 Mar. (82)	6 Fri	18	0	0	23 Feb (54) .	6 Fri	275 0116	3889			
23 Mar (83)	1 Sun.	0	12	30	13 Mar (73)	5 Thur	309 6513	3890			
23 Mar (82)	2 Mon	6	25	0	2 Mar (61) .	2 Mon	185 3346	3891			
23 Mar (82) .	3 Tues	12	37	30	21 Mar (80)	1 Sun	219 9743	3892			
23 Mar (82) .	4 Wed .	18	<i>5</i> 0	0	10 Mar (69)	5 Thur	95 6576	3893			
23 Mar (83) .	6 Frı	1	2	30	28 F3b (59)	3 Tues	309 9730	3894			
23 Mar (82)	0 Sat .	7	15	0	17 Mar (76)	1 Sun	5 9807	3895			

TABLE

					CONC	URRI	ENT YEA	R			
						1					
		rama		r vear			JOVIAN SAMVATSARA				Mean Intercal sted adlul a) lunar
Kalı	Saka	Chaitradi Vikrama		Möshädı solar ın Bengal	Kolla	ım	AD	Southern system	Northern system	1	month
1	2	- 3	-	3a	4		б	6	7		8 <i>a</i>
3896	717	1 8	52	201			794 95	7 Sr	mukha		
3897	71	8 8	53	202			795 96	8 Bi	ากึงย	• 1	3 Jyčshtha
3898	71	9 8	354	203			* 796 97	9 Y	แรก	•]	
3899	72	0 8	855	204			797 98	10 D	•		12 Phälguna
3900	72	1 :	856	205			798 99	11 If	n ara	1	
3901	72	2	857	206	;		799 800	12 B	ahudhāny a	l	1
3902	7:	23	858	207	, {		*800 01	13 Pramāthin .		.	8 Kārttika
3903	7	24	859	20	3		801 02	14 Vikrama .		•	
3904	7	25	860	20	9	-	802 03	15 Vrisha		.	
3905	1 7	26	861	21	o		803 04	16 C	hitrabhānu		5 Srāvana
3906	; ;	127	862	21	1	Ì	*804 05	17 8	ubhānu	1	
3907	~ '	728	863	21	2		805 06	18 7	āraņa	.	
890	В	729	864	2	13		806 07	19 1	Pärthiva .	•	1 Chartra
890	9	730	868	5 2	14		807 08	, 20 1	Vyaya .	•	٠
391	0	731	860	6 2	15		*808 09	21 8	Sarvajit		10 Pausha .
391	1	732	86	7 2	16		809 10	22 (Sarvadhārın	•	
391	12	733	86	8 2	217		810 1	23	Vırödhın	•	٠
39	1	734	86	19 1	818		811-1	24	Vikrita	• •	6 Bhādrapada
	14	735	87	- 1	219		*812-1	i	Khara .	•	·
	15	736	1	1	220		813-1	1 -	Nandana	• •	
	916	737	1	72	221		814-1			• •	3 Jyēshtha .
	917	738 739	1	73	222		1	15-16 28 Jaya		•	•••
	919 918 (739	1	874 875	223		1	816-17 29 Manmatha .		• •	11 Māgha
	3920	74	1	876	225		1	17-18 30 Durmukha 318-19 31 Hēmalamba .		•	•
=	-	l 					1				<u> </u>

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1 Ārya Siddhānta, mean system.

1 Arya Siddhanta, mes												
	COI	mencemen	T OF THE									
Mean s	OLAR YEAR.		Mean Luni-solar civil day on which			Kalı ye ar.						
Day and month, A.D	Week-day.	Time of mean Mēsha- samkrāntı	Day and month, A.D	Week-day	a (here=!, the index of the tithi)							
13	14	17	19 '	20	23	1						
23 Mar (82)	1 Sun	H M S	7 Mar (66)	6 Fn	220 2959	3896						
23 Mar (82)	2 Mon .	19 40 0	24 Feb (55)	3 Tues	95 9793	3897						
23 Mar (83)	4 Wed	1 52 30	14 Mar (74)	2 Mon	130 6189	3898						
23 Mar (82) .	5 Thur	8 5 0	3 Mar (62)	6 Fri	6 3023	3899						
23 Mar (82)	6 Fra .	14 17 30	22 Mar (81)	5 Thur	40 9419	3900						
23 Mar (82) .	0 Sat	20 30 0	12 Mar (71)	3 Tues	255 2572	3901						
23 Mar (83) .	2 Mon	2 42 30	29 Feb (60)	0 Sat .	130 9406	3902						
23 Mar (82)	3 Tues .	8 55 0	19 Mar (78)	6 Fm .	165-5802	3903						
23 Mar (82)	4 Wed .	Ì5 7 30	8 Mar (67)	3 Tues .	41 2636	3904.						
23 Mar. (82)	5 Thur	21 20 0	26 Feb (57) .	1 Sun	255 5789	3905						
23 Mar (83)	0 Sat	3 32 30	16 Mar (76)	O Sat .	290 2185	3906:						
23 Mar (82)	1 Sun	9 45 0	5 Mar (64) .	4 Wed .	165 9018	3907						
23 Mar (82)	2 Mon	15 57 30	22 Feb (53)	1 Sun .	41 5852	3908						
23 Mar (82) .	3 Tues	22 10 0	13 Mar (72)	0 Sat .	76 2248	3909						
23 Mar (83)	5 Thur .	4 22 30	2 Mar (62) .	5 Thur	290 5401	3910						
23 Mar (82'	6 Fri	10 35 0	21 Mar (80) .	4 Wed .	325 1798	3911						
23 Mar (82) .	0 Sat .	16 47 30	10 Mar (69) .	1 Sun .	200-8631	391 2						
23 Mar (82)	1 Sun	23 0 0	27 Feb (58)	5 Thur .	76 5465	3913						
23 Mar (83)	3 Tues	5 12 30	17 Mar (77) .	4 Wed	111 1862	3914						
23 Mar (82) .	4 Wed	11 25 0	7 Mar (66)	2 Mon .	325-5013	3915						
23 Mar. (82)	5 Thur	17 37 30	24 Feb (55)	6 Fri	201 1847	3916						
23 Mar (82) .	6 Fri .	23 50 0	15 Mar (74) .	5 Thur	235 8244	3917						
23 Mar (83)	1 Sun .	6 2 30	3 Mar (63)	2 Mon .	111 5078	3918						
23 Mar (82)	2 Mon .	12 15 0		1 Sun.	146 1473	3919						
23 Mar (82)	3 Tues	18 27 30	11 Mar (70) .	5 Thur.	21 8307	3910						

TABLE

	CONCURRENT YEAR													
		krama	ar year				Joyian Sa	Myatsara.		Menn Intercalated (adjuka) lunar				
Kalı	Saka	Chatradı Vıkrama	Mēshādı solar	K	ollam	A.D	Southern system	Northers system	n	month				
1	2	3	32		4	5	6	7		8a				
3921	742	877	22	6		819 20	32 Vıl	ambat		8 Kärttika .				
3922	743	878	22	7	}	*820 21	34 Sã	rvarın .	- 1	••				
3923	744	879	22	8		821-22	35 Ple	ıva	.	•				
3924	745	880	22	9	1	822 23	36 Śu	bhakrit	1	4 Āshādha .				
3925	746	883	L 2	10		823 24	37 Ś o	bhana	l	• •				
3926	747	88	2 2	31		*824-25	38 Kr	ödhın	.					
3927	748	88	3 2	32	01	825-26	39 V1	śvāvasu .		1 Chaitra .				
3928	749	88	4 2	33	1-2	826-27	40 Pa	rābhava .	• •					
3929	750	1	5 2	34	2-3	827-28	41 Pl	avanga .	٠.	10 Pauska				
8930	75	1	6 2	35	34	*828 29	42 Ki	laka .	. [•				
2931	75	1	`	36	45	829 30	43 Sa	umya	.	***				
3 932	75	1	1	37	56	830 31	44 Sã	dhārana .	.]	6 Bhādrapada				
3 933	1	- -		238	67	831-32	45 V₁	rödhakṛıt .		•••				
3934	{ ``	- (-	- {	239	7-8	*832-33	46 Pa	nrdbävm .		***				
3935 3936] "	٦ ١	ţ	240	88	833 34	47 P	amādin ,		3 Jyështha .				
393	` { ``	· ·	1	241	9 10	834 35	48 Ā	nanda .		••				
393	- } "	- 1	93	242	10 11	1835 36	49 R	ākshasa .		11 Māgha .				
393	\ `	. 1	395	243 244	11 12	*836 37	{	nala .	• •	•••				
394			896	244	12-13	837-38	l	nigala .	• •					
394	1	- 1	897	246	13 14 14 15	838 39	1	ālayukta	• •	8 Kārttika .				
394	\	763	898	247	15 16	839 40 *840-41		ıddhärthın	•	₩•				
39	43	764	899	248	16 17	841 42)		•					
39	44	765	900	249	17 18	Į.	}		• •	4 Äshädha				
38	45	760	901	250	!			Dundubhi Rudhirōdgāmn	• •	•				
/		==	 	Re 1	 	<u> </u>	Evsterns 32 V-La-	erranio de la compansione della compansione dell		••				

[?] By both mean and true systems 33 Vikārin was expunged

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1 Ārya Siddhānta, mean system.

Arya Siddiana, me												
	CO	MMENCEME	nt of the			1						
Mean s	OLAB 3 EAR-		MEAN LUNI-SOLAI									
Day and Month, A.D	Week-day.	Time of mean Mësha- samkränti.	Day and month, A. D	Week-day	a (here=t, the index of the tithi)	Kalı ycar						
13	14	17	19	20	23	1						
24 Mar (83)	5 Thur .	H M S 0 40 0	1 Mar (60) .	3 Tues	236 1460	3921						
23 Mar (83)	6 Fri.	6 52 30	19 Mar (79)	2 Mon.	270 7856	3922						
23 Mar (82)	OSat .	13 5 0	8 Mar (67) .	6 Fra.	146 4690	3923						
23 Mar (82)	1 Sun.	19 17 30	25 Feb (56) .	3 Tues.	22 1524	3924						
24 Mar (83)	3 Tues.	1 30 0	16 Mar (75) .	2 Mon	56 7920	3925						
23 Mar (83)	4 Wed.	7 42 30	5 Mar (65)	0 Sat.	271 1073	3926						
23 Mar (82)	5 Thur	13 55 0	22 Feb (53)	4 Wed.	146 7906	3927						
23 Mar (82)	6 Fra.	20 7 30	13 Mar (72)	3 Tues.	181 4303	3928						
24 Mar (83)	1 Sun	2 20 0	2 Mar (61) .	0 Sat.	57 1137	3929						
23 Mar (83)	2 Mon.	8 32 30	20 Mar (80)	6 Fr	91 7533	3930						
23 Mar (82)	3 Tues.	14 45 0	10 Mar (69) .	4 Wed.	306 0686	3931						
23 Mar (82)	4 Wed.	20 57 30	27 Feb (58) .	1 Sun	181 7519	3932						
24 Mar (83)	6 Fm .	3 10 0	18 Mar (77) .	O Sat .	216 3916	3933						
23 Mar (83)	O Sat.	9 22 30	6 Mar (66) .	4 Wed.	92 0749	3934						
23 Mar (82)	1 Sun	15 35 0	24 Feb (55) .	2 Mon	306 3902	3935						
23 Mar (82)	2 Mon	21 47 30	14 Mar (73) .	0 Sat.	2 3979	3936						
24 Mar (83)	4 Wed	4 0 0	4 Mar (63) .	5 Thur .	216 7132	2937						
23 Mar (83)	5 Thur .	10 12 30	22 Mar (82) .	4 Wed.	251 3528	3938						
23 Mar (82)	6 Fra .	16 25 0	11 Mar (70)	1 Sun. •	127 0362	3939						
23 Mar (82)	0 Sat .	22 37 30	28 Feb (59)	5 Thur	2 7176	3940						
24 Mar (83)	2 Mon .	4 50 0	19 Mar (78)	4 Wed.	37 3592	3941						
23 Mar (83)	3 Tues .	11 2 30	8 Mar (68) .	2 Mon.	251 6745	3942						
23 Mar (82)	4 Wed.	17 15 0	25 Feb (56) .	6 Fri	127 3579	3943						
23 Mar (82)	5 Thus	23 17 30	16 Mar (75) .	5 Thur .	161 9975	39 44						
24 Mar (83)	0 Sat.	5 40 0	5 Mar (64) .	2 Mon.	37 68 9	3945						

TABLE

	CONCURRENT YEAR												
Kalı	Śaka	Chaitrādi Vikrama	Mēsbādı solar year m Bengal	Kollam	A D	JOVIAN SA Southern system	Northern Bystem		Mean Intercalated (adhil a) lunar month.				
1	2	3	3a	4	5	6	7		8a				
3946 3947 3948	767 768 769	902 903 904	251 252 253	19-20 20-21 21 22	*844 45 845 46	59 Krö			1 Chaitra				
3949	770	905	254	22 23	846 47 847-48	60 Ksh	_		9 Märgasira				
3950	771	906	255	23-24	-*848 49	1 Pra 2 V 1b	bhava .						
3951	772	907	256	24 25	849 50	2 V 10 3 Suk			6 Bhādrapada.				
3952	773	908	257	25 26	850-51	4 Pra	o Distrapante						
3953	774	909	258	26 27	851-52	5 Prajāpati							
3954	775	910	259	27-28	*852 53	6 Angiras		2 Vaišūkha					
3955	776	911	260	28 29	853 54		mukha .						
3956	777	912	261	29 30	854 55	8 Bhi	āva		11 Mügha .				
3957	778	913		30 31	855 56	9 Yu	van		ŭ				
3958	779	914	1	31-32	*856 57	10 Dh	ñt71						
3959	780	915		02 00	857 58	11 Iév	ara .	•	7 Āśvin				
3960 3961	781	916		00-01	858 59	12 Bal	hudhānya						
3962	782	917		01-00	859 60	13 Pre	māthin	•					
3963	783 784	918			*860 61	14 V ₂	crama		4 Āśhāḍha .				
3964	1	ì		1	861 62	15 V _F 1	sha .	!					
3965	1	1		""		16 Ch	itrabhānu		12 Phälguna				
3966	1	1	1	1	863-64	17 Sui	bhānu	•					
3967		1		1 -0 -20	302-00	18 Tā:	rana	•	•				
3968	1	1	i			1	rthive .	•	9 Mārgaéura				
3008	1	1	-		200-01	20 Vyaya .		•					
3970	791	1			3000	21 084	rvajit						
===			<u> </u>			22 Sar	rvadhārm .		6 Bhādrapada.†				

[†] By the "Indian Calendar" 5 Śrāvana was intercalated.

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1 Ārya Siddhānta, mean system.

Arya Sidduanta, me											
	CO	MENCEME	nt of the								
Mean e	BARY MADO			Mean luni golar year (yean sunrise of civil day or which Chaitra Surla 1 ends)							
Day and month, A.D.	Wock-day.	Time of mean Meshe samkränti	Day and month, AD	Week day.	a (here=t, the index of the tithi)						
13	14	17	19	20	23	1					
23 Mar (83).	1 Sun	H M S	23 Feb (54)	0 Sat	251 9960	3946					
23 Mar (82)	2 Mon .	18 5 0	13 Mar (72)	6 Fn	286 6357	3947					
24 Mar. (83) .	4 Wed .	0 17 30		3 Tues .	102 3191	3948					
24 Mar (83)	5 Thur .	6 30 (2 Mon	196 9588	3949					
23 Mar (83) .	6 Fri	12 42 30	9 Mar (69) .	6 Fm .	72 6421	3950					
23 Mar (82)	o Sat	18 55 (27 Feb (58) .	4 Wed	286 9573	3951					
24 Mar (83)	2 Mon .	1 7 30	18 Mar. (77)	3 Tues .	321 5970	3952					
24 Mar (83)	3 Tues	7 20	7 Mar. (66) .	0 Sat .	197 2503	3953					
23 Mar (83) .	4 Wed .	13 32 30	24 Feb (55)	4 Wed	72 9637	3954					
23 Mar (82)	5 Thur	19 45	14 Mar (73) .	3 Tues .	107 6033	3955					
24 Mar (83) .	0 Sat .	1 57 3	4 Mar (63)	1 Sun	321 9186	39 <i>5</i> 6					
24 Mar (83)	1 Sun	8 10	22 Mar (81) .	6 Fri .	17 9263	3957					
23 Mar (83)	2 Mon .	14 22 3	11 Mar (71) .	4 Wed .	232 2416	3958					
23 Mar (82)	3 Tues .	20 25	28 Fob (59) .	1 Sun .	107 9250	3959					
24 Mar (83)	5 Thur .	2 47 3	19 Mar (78) .	0 Sat .	142 5646	3960					
24 Mar (83)	6 Fri	9 0	8 Mar (67) .	4 Wod	18 2480	3961					
23 Mar (83) .	0 Sat .	15 12 3	26 Feb. (57) .	2 Mon .	232 5633	3962					
23 Mar (82) .	1 Sun .	21 25	16 Mar (75) .	1 Sma .	267-2029	3962					
24 Mar (83) .	3 Tues .	3 37 3	5 Mar (64) .	5 Thur .	142 8863	3964					
24 Mar (83) .	4 Wed.	9 50	24 Mar. (83) .	4 Wed	177 5259	3965					
23 Mar (83)	5 Thur.	16 2 3	12 Mar (72) .	1 Sun	53-2093	3966					
23 Mas (82).	. 6 Fr:	22 15	2 Mar. (61) .	6 Fri	287-5245	3967					
24 Mar (83) .	. I Sun	4 27 3	21 Mar. (80) .	5 Thur	302-1642	3968					
24 Mar (83) .	. 2 Mon	. 10 40	0 10 Mar (69) .	2 Mon	177-8478	3969					
23 Mar. (83) .	. 3 Tues.	. 16 52 3	27 Feb (58) .	6 Fri.	63 5309	3970					

====				CONCUR	RENT YEA	R.			
		sma	year			Jovian Sai	MYATSARA		Mean Intercalated
Kalı.	er er Chatradi Vikrama Meshadi solar ye		Meshadı solar ın Bengal	Kollam	A.D	Southern systom	Northern system		(adhika) lunar month
1	2	3	3a	4	5	6	7		8a
3971	792	927	276	44 45	869-70		rödhın		••
3972	793	928	277	45 46	870 71	24 Vil	krita	-	
3 973	794	929	278	46 47	871-72	25 Kł	iars	•	2 Variākha
3974	795	930	279	47-48	*872-73	•	indona .	•	•••
3975	796	1	280	1	873-74	27 Vı	•	- 1	11 Māgha
3976	797		1	1	874-75	28 Ja			•
3977	798				875-76		anmatha	•	_
3978	799				*876-77		urmukha	l	7 Āśvins
3979	800		-0	1	877-78		ēmalamba		
3980 3981			1 -		1		ılamba .		•
3982		_	٠	_	1		ikānn		4 Āshādha
3983		_	` \			34 Si	•	•	
398		- - '	` - `				ubhakrit .	•	12 Phälguna .
398	1	`` -`	`\\-`	0 58 5		1	öbhana .	•	
398	6 8	07 9	- 1	91 59 6		1	Grödkın	•	9 Märgaáira
398	7 8	08 80	43 2	92 60 6	1	1	liśvāvasu .		. margasita
398	8 8	09 8	44 2	93 61-6	2 886 87	l.	Parābhava .	•	
39	39 E	10 8	45 2	94 62 6	887 88	1	Plavanga		5 Srāvana
39	90 8	311 1	46 2	95 63 6	*888 89	1	Kilaka .	•	
	1	812	47	96 64	889 90	ì	Saumya	•	
	l l	l l	948	297 65	890 91	1			2 Vaišākha
	1	l l	- 1	298 66	67 891-92	1			
	L	815		299 67	68 *892 93	1			10 Paushs
	995	816	951	300 A8	69 893 94	47	Pramādin .	•	•••

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1 Ārya Siddhānta, mean system.

acun ayatcın	a Siddhänta,	* 21.7			*							
			T OF THE	EME	NCE	VME	CO.					
Kau year.	MI AN LUNI SOLAR 1 FAR (MEAN SUNRISE OF CIVIL DAY ON WHICH CHAITRA SUKLA 1 ENDS).						AR.	OLAR 1 EA	lean s	3		
	a (here=t, the index of the tithi)	Week day	Day and month,	Time of mean Mesha samkränti			ny	Week de	ntb,	Day and month, AD		
1	23	20	19		17	_		14	•••••	13		
3971	88 1705	5 Thur	17 Mar (76)	S 0	M 5	H 23		4 Wed		3 Mar (82)		
3972	302 4858	3 Tues	7 Mar (66)	30	17	5		6 Fri	•	Mar (83)		
3973	178 1692	0 Sat	21 Feb (55)	0	30	11		0 Sat	•	4 Mar (83)		
3974	212 8088	6 Fr:	14 Mar (74)	30	42	17		1 Sun	•	3 Mar (83)		
3975	88 4922	3 Tues	3 Mar (62)	0	55	23		2 Mon		3 Mar (82)		
3976	123 1318	2 Mon	22 Mar (81)	30	7	6		4 Wed	•	4 Mar (83)		
3977	9998 8151†	6 Frı	11 Mar (70)	0	20	12		5 Thur	•	4 Mar (83)		
3978	213 1304	4 Wed	29 Feb (60)	30	32	18		6 Fn		3 Mar (83)		
3979	247 7700	3 Tues	19 Mar (78)	0	45	0		1 Sun		4 Mar (83)		
3980	123 4535	0 Sat	8 Mar (67)	30	57	6		2 Mon		4 Mar (83)		
3981	9999 1368†	4 Wed	25 Feb (56)	0	10	13	•	3 Tues	•	4 Mar. (83)		
3982	33 7764	3 Tuoq	15 Mar (75) .	30	22	19	•	4 Wed	•	3 Mar (83)		
3983	248 0917	1 Sun	5 Mar (64)	0	35	1	•	6 Frı		4 Mar (83)		
3984	282 7313	0 Sat	24 Mar (83) .	30	47	7		0 Sat	•	4 Mar (83)		
3985	158 4147	4 Wed.	13 Mar (72) .	0	0	13	•	1 Sun	•	4 Mar (83) .		
3986	34 0980	1 Sun	1 Mar (61)	30	12	20		2 Mon	•	3 Mar (83) .		
3987	68 7377	0 Sat	20 Maz (79)	0	25	2		4 Wed		4 Mar (83)		
3988	283 0530	5 Thur .	10 Mar (69)	30	37	8		5 Thur		4 Mar (83)		
3989	158 7364	2 Mon	27 Feb (58) .	0	50	14		6 Frı		4 Mar (83)		
3990	193 3760	1 Sun	17 Mar (77)	30	2	21	•	0 Sat	•	23 Mar (83)		
3991	69 0594	5 Thur	6 Mar (65)	0	15	3		2 Mon		24 Mar (83)		
3992	283 3746	3 Tues		30	27	9		3 Tues	•	4 Mar (83)		
3993	318 0143	2 Mon.	, ,	0	40	15		4 Wed		24 Mar (83)		
399 4 399 <i>5</i>	193 6976	6 Fri		30	52	21	i	5 Thur		23 Mar. (83)		
3870	228 3372	5 Thur	22 Mar (81)	٥	5	4		0 Sat		24 Mar (83)		

[†] As a mean tithi Chaitra sukla 1 was suppressed the mean luni solar year, was as given in cols 19, 20

TABLE

				CONC	JRRENT Y	YEAR.		
		ıkrama.	olar year	Kollam,	A.D	JOVIAN 8/	MVATSARA	Mean Intercalated (adhika) lunar
Kau.	Saka	Chaitrādi Vikrama.	Meshadı solar ın Bongal	Konam.	A.D	Southern system	Northern system	month
1	2	3	3a	4	5	6	7	8a
3996	817	952	301	69 70	894 95	48 An	3-	
3997	818	953	302	70 71	895 98		•	
3998	819	954	303	71 72	*896 97		kahasa	7 Aávina
3999	820	955	304	72 73	897 98	50 An		
4000	821	956	305	73.74	898 99	51 Pii		•
4001	822	957	306	74 75	899 900		lay ukta .	3 Jyčahtha
4002	823	958	307	75 76	*900 01		ldhārthin , ,	
4003	824	959	308	76 77		54 Ra	•	12 Phälguna
4004	825	960	309	77-78	901 02	55 Du	•	
4005	826	961	310	78 79	902 03		indubhi	
4006	827	962	311	79 80	903 04	ł .	dhirōdgārin	9 Mārgasīra Ş
4007	828	963	312	80 8L	*904 05		ktāksha† .	
4008	829	984	313	81 82	905 06	59 Krödhana	60 Kshaya	
4009	830	965	314	82 83	906 07	60 Kshaya‡ .	1 Prabhava	5 Srāvana
4010	831	966	315	82 83	907-08	1 Prabhava	2 Vibhava	
4011	632	967	316	84 85	*908 09	2 Vibhava	3 Śukla	
4012	633	968	317	85 86	909 10	3 Sukla	4 Pramōda	2 Vaisākha
4013	834	969	318	86-87	910 11	4 Pramoda	5 Prajāpati	
4014	835	970	319	87-88	911 12	5 Prajāpatı	6 Anguras .	10 Pausha
4015	836	971	320	88 89	*912 13	6 Angiras	7 Srīmukha	
4016	837	972	1	89 90	913 14 914 15	7 Srimukha	8 Bhāva	
4017	838	973	322	90 91	915 16	8 Bhāva	9 Yuvan	7 Āśvīna .
4018	1 - 70	974	323	91-92	*916 17	9 Yuvan	10 Dhātṛı .	
4019	1 ***	975	324	92 93	917-18	10 Dhātrı	11 Īśvara .	
4020	841	976	325	I	918 19	11 Iśvara 12 Bahudhānya	12 Bahudhānya	3 Jyështha

[†] By the mean system 59 Krödhana was expunged, by the true system 60 Kshaya was the expunged sainstara and the year AD 9056 was called "Krodhana"

† By southern reckoning there was no suppression after this year

§ By the "Indian Calendar" 8 Kärttika was intercalated.

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1 Ārya Siddhānta, mcan system

A 1) 13 14 17 19 20 23 1 Nar (\$3) 1 Sun. 16 17 30 11 Mar (70) 2 Mon 104 0206 3996 Mar (\$3) 2 Mon 16 30 0 1 Mar (\$60) 0 Sat. 318 3359 3997 Mar (\$3) 3 Tuca. 22 42 30 18 Mar (78) 5 Thur 4 55 0 8 Mar (\$7) 3 Tuca. 228 6589 3999 Mar (\$3) 6 Fri 11 7 30 25 Feb (56) 0 Sat. 104 3423 4000 Mar (\$3) 0 Sat. 17 20 0 16 Mar (75) 6 Fri 138 9819 4001 Mar (\$3) 1 Sun 23 32 30 4 Mar (\$4) 3 Tucs 14 6653 4002 Mar (\$3) 3 Tucs 5 45 0 23 Mar (\$2) 2 Mon 104 0206 3996 3996 3097 3 Tucs 228 6589 3999 4000 4001 Mar (\$3) 1 Sun 23 32 30 4 Mar (\$4) 3 Tucs 14 6653 4002 Mar (\$3) 4 Wed. 11 57 30 13 Mar (\$2) 2 Mon 49 3049 4003 4004			-			· ~			mcan system
Day and month, A 1) Week day Time of mean Mesha-ramkrints 13 14 17 19 20 23 1 Mar (\$3) Nar (\$3) Nar (\$3) Times 2 Mon 16 30 1 Mar (\$60) Nar (\$63) Nar (\$3) Nar (\$4) Nar (\$5) Nar (\$6)		co	NN:	eno	EME	ent of the			
Day and month, A D Week day Time of mean Meahn-samkrints 13 14 17 19 20 23 1 Mar (\$3) Sun. 16 30 0 1 Mar (\$60) Mar (\$3) Sun. 16 30 0 1 Mar (\$60) Mar (\$3) Sun. 22 42 30 18 Mar (\$78) Sun. 3 Tues. 4 55 0 8 Mar (\$67) Mar (\$3) Sun. 11 7 30 25 Feb (\$60) Mar (\$3) Sun. 12 4 55 0 16 Mar (\$75) Mar (\$3) Sun. 13 4 55 0 16 Mar (\$75) Mar (\$3) Mar (\$3) Sun. 14 55 0 16 Mar (\$75) Mar (\$3) Mar (\$3) Mar (\$3) Sun. 15 Thur 16 30 0 1 Mar (\$60) Sun. 16 30 0 1 Mar (\$60) Sun. 16 30 0 1 Mar (\$60) Sun. 17 20 0 16 Mar (\$75) M	Mean	Ei) AH) FAR				MPAN LUNI NOL CIVIL DAY ON WI	- Kalı year		
Mar (\$3)	Day and month,	Week day	me	m V	čahr		Week day	the index	
Mar (\$3)	13	14		17		19	20	23	1
3 Mar (83) 3 Tues. 22 42 30 18 Mar (78) 5 Thur 14 3436 3998 4 Mar (83) 5 Thur 4 55 0 8 Mar (67) 3 Tues. 228 6589 3999 4 Mar (83) 6 Fri 11 7 30 25 Feb (56) 0 Sat. 104 3423 4000 4 Mar (83) 0 Sat. 17 20 0 16 Mar (75) 6 Fri 138 9819 4001 4 Mar (83) 1 S un 23 32 30 4 Mar (64) 3 Tues 14 6653 4002 4 Mar (83) 3 Tues. 5 45 0 23 Mar (82) 2 Mon 49 3049 4003 4 Mar (84) 4 Wed. 11 57 30 13 Mar (72) 0 Sat. 263 6202 4004	24 Var (\$3)	1 Sun.				11 Mar (70)	2 Mon	104 0206	3996
Mar (83) 5 Thur 4 55 0 8 Mar (67) 3 Tues. 228 6589 3999 Mar (83) 6 Fr: 11 7 30 25 Feb (56) 0 Sat. 104 3423 4000 Mar (83) 0 Sat. 17 20 0 16 Mar (75) 6 Fr: 138 9819 4001 Mar (83) 1 S un . 23 32 30 4 Mar (64) 3 Tues 14 6653 4002 Mar (83) . 3 Tues. 5 45 0 23 Mar (82) 2 Mon 49 3049 4003 Mar (83) 4 Wed. 11 57 30 13 Mar (72) 0 Sat. 263 6202 4004	24 Mar (63)	2 Mon	16	30	0	1 Mar (60)	0 Sat	318 3359	3997
Mar (83) 6 Fr: 11 7 30 25 Feb (56) 0 Sat. 104 3423 4000 Mar (83) 0 Sat. 17 20 0 16 Mar (75) 6 Fr: 138 9819 4001 Mar (83) 1 Sun . 23 32 30 4 Mar (64) 3 Tues 14 6653 4002 Mar (83) . 3 Tues. 5 45 0 23 Mar (82) 2 Mon 49 3049 4003 Mar (83) 4 Wed. 11 57 30 13 Mar (72) 0 Sat. 263 6202 4004	23 Var (83) .	3 Tues.	22	42	30	18 Mar (78)	5 Thur .	14 3436	3998
Mar (83) 0 Sat 17 20 0 16 Mar (75) 6 Fri 138 9819 4001 Mar (83) 1 S un . 23 32 30 4 Mar (64) 3 Tues 14 6653 4002 Mar (83) . 3 Tues 5 45 0 23 Mar (82) 2 Mon 49 3049 4003 Mar (84) 4 Wed. 11 57 30 13 Mar (72) 0 Sat. 263 6202 4004	24 Mar (83)	5 Thur	4	55	0	8 Mar (67)	3 Tues.	228 6589	3999
Mar (83)	24 Mar (83)	6 Fri	11	7	30	25 Гев (56)	0 Sat.	104 3423	4000
Mar (83) . 3 Tucs. 5 45 0 23 Mar (82) 2 Mon 49 3049 4003 Mar (83) 4 Wed. 11 57 30 13 Mar (72) 0 Sat. 263 6202 4004	24 Mar (83)	0 Sat	17	20	0	16 Mar (75)	6 Fri	138 9819	4001
Mar (83) 4 Wed. 11 57 30 13 War (72) 0 Sat. 263 6202 4004	23 Mar (83)	1 Sun .	23	32	30	4 Mar (61)	3 Tues	14 6653	4002
	24 Vinr (83) .	3 Tues	5	45	0	23 Mar (82)	2 Mon	49 3049	4003
Mar (83) 5 Thur . 18 10 0 2 Mar (61) 4 Wed 139 3034 4005	24 Mar (83)	4 W ed.	11	57	30	13 Mar (72)	0 Sat	263 6202	4004
	24 Mar (83)	5 Thur .	18	10	0	2 Mar (61)	4 Wed	139 3034	4005
Mar (84) 0 Sat 0 22 30 20 Mar (80) 3 Tues. 173 9431 4006	24 Mar (84)	0 Sat	0	22	30	20 Mar (80)	3 Tues.	173 9431	4006
Mar (83) 1 Sun 6 35 0 9 Mar (68) 0 Sat. 49 6264 4007	24 Mar (83)	1 Sun	6	35	0	9 Mar (68)	0 Sat	49 6264	4007
Mar (83) 2 Mon 12 47 30 27 Feb (58) 5 Thur 263 9418 4008	24 Mar (83)	2 Mon	12	47	30	27 Feb (58)	5 Thur	263 9418	4008
Mar (83) 3 Tues 19 0 0 18 Mar (77) 4 Wed 298 5814 4009	24 Mar (83)	3 Tues	19	0	0	18 Mar (77)	4 Wed	298 5814	4009
Mar (84) 5 Thur 1 12 30 6 Mar (66) 1 Sun 171 2647 4010	24 Mar (84)	5 Thur	1	12	30	6 Mar (66)	1 Sun	171 2647	4010
Mar (83) 6 Fr. 7 25 0 23 Feb (54) 5 Thur 49 9481 4011	24 Mar (83)	6 Fri	7	25	n	23 Feb (54)	5 Thur	49 9481	4011
4 Mar (83) . 0 Sat. 13 37 30 14 Mar (73) 4 Wed 84 5878 4012	24 Mar (83) .	0 Sat	13	37	30	14 Mar (73)	4 Wed	84 5878	4012
4 Mar (83) 1 Sun . 19 50 0 4 Mar (63) 2 Mon 298 9030 4013	24 Mar (83)	1 Sun .	10	50	0	4 Mar (63)	2 Mon	298 9030	4013
4 Mar (84) 3 Tues. 2 2 30 21 Mar (81) 0 Sat. 9994 9109† 4014	24 Mar (84)	3 Tues.	2	2	30	21 Mar (81)	0 Sat.	9994 9109†	4014
4 Mar (83) . 4 Wed. 8 15 0 11 Mar (70) 5 Thur 209 2259 4015	24 Mar (83) .	4 Wed.	8	15	0	11 Mar (70)	5 Thur	209 2259	4015
4 Mar (83) 5 Thur 14 27 30 28 Feb (59) 2 Mon. 84 9093 4016	24 Mar (83)	5 Thur	14	27	30	28 Feb (59)	2 Mon.	84 9093	4016
4 Mar (83) . 6 Fr: 20 40 0 19 Mar (78) 1 Sun. 119 5490 4017	24 Mar (83) .	6 Frı	20	40	0	19 Mar (78)	1 Sun.	119 5490	4017
	24 Mar (84)	1 Sun	2	52	30	7 Mar (67)	5 Thur	9995 2324†	
	24 Mar (83)	2 Mon	9	5	0	25 Feb (56) .	3 Tues	209 5476	
4 Mar (83) 3 Tues 15 17 30 16 Mar (75) 2 Mon 244 1872 4020	24 Mar (83)	3 Tues	15	17	30	16 Mar (75)	2 Mon	244 1872	4020

The civil day corresponding to it, : c, the first day of † As a mean tithi Chaitra Sukla 1 was suppressed the lum solar year was as given in cols 19, 20

H 2

				CO	NCURF	ENT YE	ar	==		Ī	
			1 24	T						1	35aan
Kalı	Saka	Chattrādı Vikrama	Meshadi solar year in Bengal.	Ko	bilam	A.D	JOVIAN SAI Southern system.	MY.	Northern system.	-	Mean Interculated (adluka) lunar month
1	2	3	3a		4	5	6		7	_ _	8a
4021	842	977	320	5 8	94 95	919 20	13 Pramāthin .	1	4 Vikrama		12 Phölguna .
4022	843	978	32	7 4	95 96	*920 21	14 Vikrama	1	•	٠	••
4023	844	979	32	в :	98 97	921 22	15 Vrisha .		16 Chitrabhānu	•	•••
4024	845	980	32	9 '	97 98	922 23	16 Chitrabhanu .		17 Subhānu	٠	8 Kārttika .
4025	846	98	1 33	0	98 99	923 24	17 Subhānu .	1		•]	
4026	847	98	2 33	1	99 00	*924-25	18 Tāraņa .		19 Pārthīva	•	
4027	84	98	3 3	2 1	100 01	925-26	19 Pārthīva .		20 Vynya	\cdot	5 Śrāvana
4028	84	98	4 3	33 1	101-02	926 27	20 Vyaya		21 Sarvajit.	1	·
4029	85	0 98	35 3	34	102 03	927 28	21 Sarvajit		22 Sarvadhārın	1	·
4030	85	1 9	36 3	35	103 04	*928 29	22 Sarvadhāmn .		23 Virödhin	\cdot	1 Chaitra
4031	88	2 9	87 3	36	104 05	920 30	23 Virödhin .	.	24 Vikrita	\cdot	•
4032		53 9	98 3	37	105 06	930 31	24 Vikrita .	.	25 Khara	·	10 Pausha
403	}	- }	1	38	106 07	931-32	25 Khara	1	26 Nandana	٠	
403	1	1	1	339	107 08	+932 33		-	27 Vijaya	٠	•
403	·	· {	1	340	108-09	933 34		1	28 Jaya .	٠	6 Bhādrapada
403 403			1	341	109 10	934 35	\		29 Manmatha	•	••
40:	1	1	993	342	110-11	ļ		i	30 Durmukha		
40	1		995	343 344	111-12	1			31 Hēmalamba	•	3 Jyështha .
40	ł	861	996	345	112-13 113 14	}			32 Vilambs	•	•••
	41	882	997	346	114-15	1			33 Vikārin	•	11 Mägha .
40	42	863	998	347	115-16	ţ		•	34 Sārvarin	•	•••
40	H3	864	999	348	116-1	1	`	•	35 Plava	•	o Wantha
4	044	865	1000	349	117-1			•	36 Subhakrit 37 Sobhana	•	8 Kārttika .
4	045	866	1001	350	,		1	•	38 Krödhin	•	

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1 Arya Siddhanta, mean system.

Ī	a Siddearta,		f THE	ŒN	NCE	MME	CO			
Kalı year.		Mean luni-solab year (mean sunrise of civil day on which Chaitra Surla 1 ends)					в.	OLAR YEA	AN S	Mea
	a (here=t, the index of the tithi)	Week-day.	and month, A D.	ha-	ime o in Mé nkrä:	me	вy	Week-da	h,	Day and month
1	23	20	19		17			14		13
4021	119 8706	6 Fm	Mar (64)	8	M 30	H 21		4 Wed.		24 Mar (83) .
4022	154 5102	5 Thur .	Mar (83)	30	42	3		6 Fr1		24 Mar (84)
4023	30 1936	2 Mon	far (71)		55	9	•	0 Sat		24 Mar (83) .
4024	244 5089	O Sat .	far. (61)	30	7	16	٠	1 Sun.		24 Mar (83)
4025	279 1485	6 Fra	far (80)		20	22	•	2 Mon.		24 Mar (83) .
4026	154 8319	3 Tues	far (69)	30	32	4		4 Wed		24 Mar (84) .
4027	30 5153	0 Sat	Feb (57)	0	45	10		5 Thur.	1	24 Mar (83)
4028	65-1549	6 Fr.	far (76)	30	57	16		6 Fri		24 Mar (83) .
4029	279· 4 701	4 Wed.	far (66)-	0	10	23		0 Sat	, ì	24 Mar (83)
4030	155 1535	1 Sun	Teb (55)	30	22	5		2 Mon		24 Mar (84)
4031	189 7932	0 Sat .	far (73)	0	35	11		3 Tues		24 Mar. (83)
4032	65 4 76 5	4 Wed	Iar (62)	30	47	17		4 Wed		24 Mar (83)
4033	100 1162	3 Tues .	far (81)	0	0	0		6 Fri		25 Mar (84)
4034	314,4314	1 Sun	[ar (71)	30	12	6	•	0 Sat		24 Mar (84)
4035	190 1148	5 Thur .	eb (59)	0	25	12		1 Sun		24 Mar (83)
4036	224 7544	4 Wed	far (78)	30	37	18		2 Mon		24 Mar (83) .
4037	100 4378	1 Sun .	[ar (67) .	0	50	0		4 Wed.		25 Mar (84)
4038	314 7531	6 Fm .	eb (57) .	30	2	7		5 Thur		24 Mar (84) .
4039	10 7698	4 Wed.	[ar (74) .	0	15	13		6 Fri		24 Mar (83)
4040	225 0661	2 Mon .	[ar (64) .	30	27	19		0 Sat		24 Mar (83)
4041	259 7156	1 Sun.	[ar (83) .	0	40	1		2 Mon.		25 Mar (84) .
4042	135 3991	5 Thur .	[ar (72) .	30	52	7		3 Tues.		24 Mar (84) .
4043	11 0825	2 Mon .	[ar (60)	0	5	14		4 Wed.		24 Mar (83) .
4044	45 7222	1 Sun	[ar (79) .	во	17	20	•	5 Thur	•	24 Mar (83) .
4045	260 0474	6 Fn	[ar (69) .	0	30	2		0 Sat.	•	25 Mar. (84) .

TABLE

		<u>:</u>		CONCUR	RENT YE	AR		
		krama	ar year			Jovian sad	M ATSARA	Mean Interculated
Kalı	Saka	Chartradı Yıkrama	Mēshādı solar ın Bengal	Kollam	AD	Southern system	Northern svatem	(adhika) lunar month
1	2	3	3a	4	5	6	7	8 <i>a</i>
4046	867	1002	351	119 20	*944 45	38 Krödhın	39 Visvāvasu	5 Srāvaņa†
4047	868	1003	352	120 21	945 46	39 Višvāvasu.	40 Parābhava	
4048	869	1004	353	121-22	946 47	40 Parābhava	41 Plavanga	
4049	870	1005	354	122 23	947-48	41 Plavanga	42 Kīlaka	1 Chaitra
4050	871	1006	8 355	123-24	*948 49	42 Kilaka	43 Saumya	•
4051	872	1007	356	124 25	949 50	43 Saumya	44 Sādhārana	10 Pausha .
4052	873	1008	357	125 26	950 51	44 Sādhārana	45 Virödhakrit	
4053	874	1009	358	-126 27	951-52	45 Virödhakrit	46 Parıdhävın	
4054	875	1010	359	127 28	*952 53	46 Paridhāvin	47 Pramādin	6 Bhādrapada
4055	876	1011	360	128 29	953 54	47 Pramādin	48 Ananda	
4056	877	1012	361	129 30	954 55	48 Ananda .	49 Rākshasa .	•
4057 4058	878	1013	362	130 31	955 56	49 Rākshasa	50 Anala	3 Jyështha
4059	879	1014	303	131 32	*956 57	50 Anala .	51 Pingala	٠
4080	880 881	1015	364	132 33	957 58	51 Pingala	52 Kālayukta .	11 Māgha
4061	882	1016	365	133 34	958-59	52 Kālayukta	53 Siddhärthin	
4062	883	1018	366	134 35	959 60	53 Siddhārthin	54 Raudra	
4063	884	ł	1	136 37	*960 61	54 Raudra	55 Durmatı	8 Kārttika .
4064	}	1	1	137 38	961 62 962 63	55 Durmatı	56 Dundubhi	
4065	886	}		138 39	963 64	56 Dundubhi . 57 Rudhirödgārin	57 Rudhirödgärin	••
4086	887	1022	i	139 40	*964 65	58 Raktāksha	58 Raktāksha	4 Āshādha
4067	888	1023	372	ı	965 66	59 Krödhana	59 Krödhana 60 Kshaya	•
4068	889	1024	378	ĺ	[60 Kshaya	1 Prabhava	1 (%
4069		1025	374	142 43	1	l Prabhava	2 Vibhava	1 Chaitra
4070		1026	375	143 44	*968 69	2 Vibhava	3 Sukla	9 Mārgaaira

[†] By the "Indian Calendar" the intercalated month was 4 Ashadha

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1 Ārya Siddhānta, menu system

										ككالكالكات
		CO3/	MEN	CEV	ien	r of th	Œ			
	Mean s	OLAR YFAR				CIVIL D				
Day	and month,	Week day	men	ime o n Mi ikrān	sha-		d month,	Week day	a {here=t, the index of the tithi)	Kalı year
	13	14		17			19	20	23	1
24 Mar	r (84) .	1 Sun	H 8	N 42	5 30	27 Feb	(58)	3 Tues	135 7207	4046
24 Ma	r (83)	2 Mon	14	55	0	17 Mar	(76)	2 Mon	170 3603	4047
24 Ma	r (83)	3 Tues	21	7	30	6 Mar	(65)	6 Frı	46 0436	4048
25 Ma	г (84)	5 Thur	3	20	ი	24 Feb	(55)	4 Wed	260 3590	4049
24 Na	r (81) .	6 Fri	9	32	30	14 Mar	(74)	3 Tues	294 9986	4050
24 Ma	r (83)	0 Sat .	15	45	0	3 Mar	(62)	0 Sat	170 6819	4051
24 Yi	or (83)	1 Sun	21	57	30	22 Mar	(81) .	6 Fri	205 3216	4052
25 M	ır (84)	3 Tues .	4	10	0	11 Mar	(70)	3 Tues	81 0049	4053
24 M	ar (84)	4 Wed	10	22	30	29 Feb	(60)	1 Sun	295 3203	405 4
24 M	nr (83)	5 Thur	16	35	0	19 Mar	(78)	0 Sat	329 9599	4055
24 M	ar (83)	6 Fm	22	47	30	8 Mar	(67)	4 Wed	205 6432	4056
25 M	nr (84)	1 Sun	5	0	0	25 Feb	(56)	1 Sun	81 3266	4057
24 M	ar (84)	2 Mon	11	12	30	15 Mar	(75)	0 Sat	115 9662	4058
24 M	ar (83)	3 Tues	17	25	0	5 Mar	(64)	5 Thur	330 2815	4059
24 M	ar (83)	4 Wed	23	37	30	23 Mar	(82)	3 Tues	26 2892	4060
. 25 M	(84)	6 Fn	5	50	0	13 Mar	(72)	1 Sun	240 6045	4061
24 M	iar (84)	0 Sat	12	2	30	1 Mar	(61)	5 Thur	116 2879	4062
24 M	(ar (83).	1 Sun	18	15	0	20 Mar	(79)	4 Wed	150 9275	4063
25 M	lar (84)	3 Tues	0	27	30	9 Mar	(68)	1 Sun .	26 6109	4084
25 A	[ar (84) .	4 Wed	6	40	0	27 Feb	(58)	6 Fri .	240 9262	4065
24 N	far (84)	5 Thur	12	52	30	17 Mar	(77)	5 Thur	275 5658	4066
24 B	Iar (83)	6 Fra	19	5	0	6 Mai	(65)	2 Mon	151 2491	4067
25 N	iar (84)	1 Sun.	1	17	30	23 Feb	(54)	6 Fra	26 9325	4068
25 N	far (84)	. 2 Mon	7	30	0	14 Mai	(73)	5 Thur	61 5721	4069
24 1	lar (84)	3 Tues	13	42	30	3 Mar	(63)	3 Tues	275 8874	4070

TABLE

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† By the "Indian Calendar" 7 Asvina was intercalated ‡ 25 Khara was expunged in the north by the mean system, but 26 Nandana by the true system. By the true system the year A.D 990 91 was, in the north, called "Khara"

LXXVI-Contd

1 Ārya Siddhānta, mean system.

				2 223,	a Siddliānta, n	теми вувесии		
	co	umenci.Mei	NT OF THE					
Mean s	COLAR YEAR.		Mean Luri solai civil day on whic	MFAN LUNI SOLAR YFAR (MEAN SUNRISF OF CIVIL DAY ON WHICH CHAITRA SULLA 1 ENDS).				
Day and month, A D	Week-day	Time of mean Misha- samkranti	Day and month, A D	Week day	a (here=t, the index of the tithi)			
13	14	17	19	20	23	1		
24 Mar (83)	4 Wed	H M S	22 Mar (81)	2 Mon	310 5271	4071		
25 Mar (84) .	6 Fn	2 7 30	11 Mar (70)	6 Fri	186 2104	4072		
25 Mar (84) .	0 Sat	8 20 0	28 Feb (59)	3 Tues	61 8939	4073		
24 Mar (84)	1 Sun .	14 32 30	18 Mar (78)	2 Mon	96 5335	4074		
24 Mar (83)	2 Mon	20 45 0	8 Mar (67)	0 Sat	310 8487	4075		
25 Mar (84)	4 Wed	2 57 30	25 Feb (56)	1 Wed	186 5321	4076		
25 Mar (84)	5 Thur	9 10 0	16 Mar (75)	3 Tues	221 1716	4077		
24 Mar (84)	6 Fn.	15 22 30	4 Mar (61)	0 Sat	96 8550	4078		
24 Mar. (83)	0 Sat	21 35 0	23 Mar (82)	6 Fri	131 4946	4079		
25 Mar (84)	2 Mon	3 47 30	12 Mar (71)	3 Tues	7 1781	4080		
25 Mar (84) .	3 Tues	10 0 0	2 Mar (61)	1 Sun	221 4933	4081		
24 Mar (84)	4 Wed	16 12 30	20 Mar (80)	0 Sat	256 1329	4082		
24 Mar (83)	5 Thur	22 25 0	9 Mar (68)	4 Wed	131 8163	4083		
25 Mar (84) .	0 Sat	4 37 30	26 Feb (57) .	1 Sun	7 4998	4084		
25 Mar (84)	1 Sun	10 50 0	17 Mar (76)	0 Sat	41 1393	4085		
24 Mar (84)	2 Mon	17 2 30	6 Mar (66) .	5 Thur	256 4546	4086		
24 Mar (83) .	3 Tues .	23 15 0	23 Feb (54)	2 Mon	132 1379	4087		
25 Mar (84)	5 Thur	5 27 30	14 Mar (73) .	1 Sun	166 7776	4088		
25 Mar (84) .	6 Fm .	11 40 0	3 Mar (62)	5 Thur	42 4610	4089		
24 Mar (84) .	O Sat .	17 52 30	21 Mar (81)	4 Wed	77 1006	4090		
25 Mar (84)	2 Mon .	0 5 0	11 Mar (70)	2 Mon	201 4188	4091		
25 Mar (84)	3 Tues .	6 17 30		6 Frı	167 0092	4092		
25 Mar (84) .	4 Wed		, , ,	5 Thur	201 7389	4093		
24 Mar (84)	5 Thur .	18 42 30	, , , ,	2 Mon	77 4222	4094 4005		
25 Mar (84) .	0 Sat	c 55 0	25 Feb (56)	0 Sat	291 7375	4095		

	3 -3-0-			CONCU	RRENT Y	EAR			Ī	
		Vilcrama,	ar year			Jovian S	BAM	vateara.		Nean Intercalated (adhika) lonar
Kalı.	Saka.	Chaitrādi Vi	Meshādı solar ın Bengal	Kollam.	A D	Southern system		Northern system		month.
1	2	3	3a	4	5	8		7		ва
4000	215	2020	403	100 50	994 95	28 Jaya .		30 Durmukha		
4096	917	1052	401	169 70	1		.	31 Hēmalamba		ll Mägha
4097	918	1053	402	170 71	995 96	30 Durmukha	٠	32 Vilamba	١	r megus
4098 4099	919	1054	403	171 72	*996 97	31 Hemalamba	•	33 Vikārin		
4100	921	1058	404 405	172 73 173-74	997 98 998 99	32 Vilamba		34 Särvarin		7 Āsvins .
4101	922	1057	406	174-75	888 88	33 Vikānn	•	35 Plays .		
4102	923	1058	407	175 76	*1000 01	34 Särvarin		36 Subhaknt		
4103	924	1059	408	176-77	1000 01	35 Plays	•	37 Söbhana	-	4 Āshādha .
4104	925	1060	409	177-78	1001-02	36 Subhaknt	•	38 Krödhin		* Transcenting 6
4105	926	1061	410	178 79	1002 03	37 Sõbhana		39 Viávāvasu		12 Phälguna .
4106	927	1062	411	179 80	*1004 05	38 Krödhin	1	40 Parabbaya		12 I de Barr
4107	928	1063	412	180-81	1003 06	39 Višvāvasu		41 Playanga		
4108	929	1064	413	}	1006 07	40 Parābhava	•	42 Kilaka		9 Märgasira
4109	930	1065	414	1	1007,08	41 Plavanga	•	43 Saumya		
4110	931	1066	415	183 84	*1008 09	42 Kilaka	•	44 Sādhāraņa		
4111	932	1067	416	184-85	1009-10	43 Saumya		45 Virodhakrit		5 Srāvaņa .
4112	933	1068	417	185-86	1010 11	44 Sādhārana	•	46 Parıdhivın		
4113	934	1069	418	186-87	1011-12	45 Vırödhakrıt	•	47 Pramādin		
4114	935	1070	415	187-88	*1012.13	46 Pandhāvin		48 Ānands		2 Vaišākha .
4118	1	107	420	188-89	1013 14	47 Pramidun		49 Rālshssa		
4110	""	7 107	2 42	1 189 90	1014-15	48 Ananda		50 Anala .		10 Pausha
411	. \	1	3 42	2 190 91	1015-16	49 Rākshasa	•	51 Pingals	٦	
413	. "	1	- [3 191 92	*1016-17	50 Anala	•	52 Kālayukta		
411	. \ ``	1	1	4 192.95	1017-18	51 Pingala	•	53 Siddhärthin	•	7 Āśvina .
412	0 94	1 107	6 42	5 193 94	1018-19	52 Kālayakta	•	54 Raudra	•	

LXXVI-Contd.

1 Ārya Siddhānta, mean system.

		OMENORIC				Ī
		OBIDICIN CEMI.	ent of the	*****		
Mean s	SOLAR YNAM.		Mean Luni-solar givil day on whic	Kalı year.		
Day and month, A.D	Wook-day	Time of mean Mésha- samkränti	Day and month,	Week-day.	a (here=t, the index of the tithi)	
13	14	17	19	20	23	1
		H. M S				
25 Mar. (84)	1 San	7 7 30	16 Mar (75) .	6 Fn .	326-8771	4096
25 Mar (84) .	2 Mon	13 20 0	8 Mar (64) .	3 Tues .	202 0505	4097
24 Mar (84)	3 Tues	19 32 30	23 Mar (82)	2 Mon.	236 7001	4098
25 Mar. (84) .	5 Thur .	1 45 0	12 Mar (71)	6 Fm	112 3835	4099
25 Mar (84) .	6 Pri .	7 57 30	2 Mar (61)	4 Wed .	326 6988	4100
25 Mar (84)	0 Set .	14 10 0	20 Mar (79) .	2 Mon	22-7065	4101
24 Mar (84)	1 Sun .	20 22 30	9 Mar (69) .	O Sat	237-0218	4102
25 Mar (84) .	3 Tues.	2 35 0	26 Feb (57) .	4 Wed .	112-7052	4103
25 Mar (84) .	4 Wed.	8 47 30	17 Mar (76) .	3 Tuès .	147 3448	4104
25 Mar (84) .	5 Thur .	15 0 0	6 Mar (65) .	0 Sat .	23 0272	4105
24 Mar (84) .	6 Fn .	21 12 30	24 Mar (84)	6 Fri	57-6667	4106
25 Mar (84) .	1 Sun .	3 25 0	14 Mar (73)	4 Wed .	271-9631	4107
25 Mar (84) .	2 Mon .	9 37 30	3 Mar (62)	1 San .	147 8665	4100
25 Mar (84)	3 Tues	15 50 0	22 Mar (81) .	0 Sat.	192 3061	4166
24 Mar (84)	4 Wed .	22 2 30	10 Mar. (70) .	4 Wed.	57 9894	4116
25 Mar (84) .	6 Fm .	4 15 0	28 Feb. (59) .	2 Mon	272-3047	4131
25 Mar (84)	0 Sat	10 27 30	19 Mar. (78) .	1 Sun	306 9444	4115
25 Mar (84) .	1 Sun	18 40 0	8 Mar. (67) .	5 Thur .	182 6277	4113
24 Mar (84)	2 Mon	22 52 30	25 Feb. (56) .	2 Mon	58 3111	4114
25 Mar (84)	4 Wed	5 5 0	15 Mar (74) .	1 Sun	92 9507	4115
25 Mar (84)	5 Thur	11 17 30	& Mar. (64)	6 Fri	397 2659	4116
25 Mar (84).	6 Fn	17 30 0	23 Mar (82) .	4 Wod	3.2737	4117
24 Mar (84) .	. 0 Sat.	23 42 30	12 Mar. (72) .	2 Mon .	217-5890	4118
25 Mar (84)	. 2 Mon	5 55 0	1 Mar. (60) .	6 Fri	93-2723	4119
25 Mar (84) .	. 3 Tues	. 12 7 30	20 Mar. (79) .	5 Thur	127-9119	4120
	_!		<u> </u>		<u>. </u>	1

		=			CONCU	RRENT Y	EAR		
		rand.	1	r year			JOVIAN SAN	IVATSADA	Mean Intercalated (adhika) lunar
Kalı	Saka	Chattrada Vikrama.		Mēshādi solst in Bengal	Kollam.	A.D	Southern system	Northern system.	month
1	2	1	3	3a	4	5	в	7	8a
4121	942	10	777	426	194 95	1019 20	53 Siddhärthin	55 Durmatı .	
4122	943	10	78	427	195.96	*1020 21	54 Raudra	56 Dundubh	4 Āshādha ‡ .
4123	944	L 10	079	428	196 97	1021-22	55 Durmati	57 Rudhirödgärin	·
4124	94	5 10	080	429	197 98	1022 23	56 Dundubhi	58 Raktāksha .	12 Phälguna .
4125	94	B 1	081	430	198 99	1023 24	57 Rudhirödgärin	59 Krödhana .	
4126	94	7 1	082	431	199 00	*1024-25	58 Raktāksha .	60 Kshaya	1
4127	94	8 1	083	432	200 01	1025 26	59 Krödhana	1 Prabhava .	9'Mārgabīra
4128	94	19 1	1084	433	201-02	1026 27	60 Kshaya .	2 Vibhava .	
4129	9	50 1	1085	434	202-03	1027-28	1 Prabhava .	3 Sukla .	
4130	1	1	1086	435	203 04	*1028-29	2 Vibhava	4 Pramoda	5 Srāvaņa .
413		- 1	1087	436	3 204 05	1029-30	3 Sukla	5 Prajāpati .	
413	- 1	- 1	1088	437		1	4 Pramoda	6 Angiras .	
413		- 1	1089	1	_	1		7 Srimukha .	2 Vaisākha .
413	- I	956 956	1090	1 -0		1000		8 Bhāva	
418 418		957	1091	\		, 2000 0.		9 Yuvan .	10 Pausha .
41:	· }	958	1092	1 ~	_	1 2002 0		10 Dhātṛ	
	38	959	1094	1 "	£2 210 1 £3 211-1	1	l l	11 Iśvara .	, T.
	39	960	109		44 212-1		•	12 Bahudhānya 13 Pramāthin	7 Āśvina .
41	140	961	109	- 1	45 213	1		14 Vikrama	
4	141	962	109	. 1	46 214.	1	1	. 15 Vrisha	3 Jyështha
4	142	963	109	98 4	147 215-			. 16 Chitrabhānu	. o o you man
	143	964	109	99 4	448 216	17 1041-	ì	17 Subhānu	12 Phälguna
	1144	965	1	00	449 217	18 1042	16 Chitrabhanu	10 55	
-	1145	980	3] 11	.01	450 218	19 1043	44 17 Subhānu	. 19 Pārthīva	

[‡] By the "Indian Calendar" 3 Jyeshtha was intercalated.

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1 Ārys Siddhānts, mesn system.

					a sadanans, n				
	C	OMMENCEM	ent of the						
Mean	SOLAB YEAR.		Mean Luni solar civil day on Whic	Mean Luni solar year (mean sunrise of civil day on which Chaitra Sukla 1 ends)					
Day and month, A.D	Week-day	Time of mean Mésha- samkränti	Day and month, A D	Week-day	a (here=1, the index of the tithi)	Kali year.			
13	14	17	19	20	23	1			
25 Mar (84) .	4 Wed	H. M 8 18 20 0	9 Mar (68)	2 Mon	3 5953	4121			
25 Mar (85)	6 Fra .	0 32 30	27 Feb (58) .	O Sat .	217 8106	4122			
25 Mar (84) .	0 Sat .	6 45 0	17 Mar (78)	6 Fra	252 5502	4123			
25 Mar. (84) .	1 Sun	12 57 30	6 Mar (65)	3 Tues .	128 2336	4124			
25 Mar. (84) .	2 Mon .	19 10 0	25 Mar (84) .	2 Mon .	182 8732	4125			
25 Mer (85) .	4 Wed .	1 22 30	13 Mar (73)	6 Fm .	38 5566	4126			
25 Mar (84) .	5 Thur	7 35 0	3 Mar (62)	4 Wed	252 8719	4127			
25 Mar (84)	6 Fm	13 47 30	22 Mar (81)	3 Tues	287 5115	4128			
25 Mar (84)	0 Sat .	20 0 0	11 Mar (70)	O Sat .	163 1948	4129			
25 Mar (85) .	2 Mon	2 12 30	28 Feb (59)	4 Wed .	38 8782	4130			
25 Mar (84)	3 Tues .	8 25 0	18 Mar (77) .	3 Tues .	73 5179	4131			
25 Mar. (84)	4 Wed .	14 37 30	8 Mar (67)	1 Sun	287 8331	4132			
25 Mar (84) .	5 Thur.	20 50 0	25 Feb (56) .	5 Thur	163 <i>5</i> 165	4133			
25 Mar (85) .	0 Sat .	3 2 30	15 Mar (75)	4 Wed	198 1561	4134			
25 Mar (84)	1 Sun .	9 15 0	4 Mar (63) .	1 Sun	73 8395	4135			
25 Mar (84) .	2 Mon	15 27 30	23 Mar (82) .	0 Sat .	108 4791	4136			
25 Mar (84)	3 Tues .	21 40 0	13 Mar (72)	5 Thur .	322 79 44	4137			
25 Mar (85) .	5 Thur.	3 52 30	1 Mar (61)	2 Mon .	198 4778	4138			
25 Mar (84)	6 Fm	10 5 0	20 Mar (79) .	1 Sun	233 1174	4139			
25 Mar (84)	0 Sat .	f6 17 30	9 Mar (68)	5 Thur	108 8008	4140			
25 Mar (84)	1 Sun .	22 30 0	27 Feb (58)	3 Tues	323 1161	4141			
25 Mar (85)	3 Tues	4 42 30	16 Mar (76)	1 Sun	19 1238	4142			
25 Mar (84)	. 4 Wed .	10 55 0	6 Mar (65) .	6 Fm .	233 4391	4143			
25 Mar (84) .	5 Thur	17 7 30	25 Mar (84)	5 Thur	268 0787	4144			
25 Mar (84).	. 8 Fr	23 20 0	14 Mar (73) .	2 Mon	143 7021	4145			
عالما مستقلسات									

		,		CONCUR	RENT YE	IR.			_	
		Vikrama	r year			JOVIAN S	SAR	IVA 75AR A.		Mean Intercalated (adhika) lunar
Kalı.	Saka	Chatradi Vil	Mishādi solar ın Bengal.	Kollam	A.D	Southern system.		Northern system		month.
1	2	3	3 <i>a</i>	4	5	8		7		8a
4146	967	1102	451	219 20	*1044-45	18 Tāreņs .		20 Vysya .		8 Kärtiika .
4147	968	1103	452	220 21	1045-46	19 Pärthres	.	21 Sarvajit	-	•
4148	969	1104	453	221-22	1046-47	20 Vyaya .	.	22 Sarvadhāmn	.]	
4149	970	1105	454	222-23	1047-48	21 Sarvajit		23 Virodhui		5 Śrávaņa .
4150	971	1106	455	223-24	*1048-49	22 Sarvadhārin		24 Viknta.		***
4151	972	1107	458	224 25	1049-50	23 Virödhm		25 Khsrs .		
4152	973	1108	457	225-26	1050 51	24 Vikņts .		26 Nandana	•	I Chaitre .
4153	874	1100	458	226 27	1051 52	25 Khara .	-	27 Vijaya .		***
4154	975	1110	459	227-28	*1052 53	26 Nandana		28 Jaya .		10 Pausha .
4155	976	1111	460	228-29	1053-54	27 Vijaya .		29 Manmatha		••
4156	977	1112	461	229-30	1054 55	28 Jaya		30 Durmukha		•
4157	978	1112	462	230 31	1055-56	29 Manmatha	•	31 Hēmalamba	-	7 Åsvina† .
4158	1	} ===:	463	231-32	*1056-57	30 Durmulha	•	32 Vilamba	•	***
4159			464	232 33	1057 58	31 Hēmalamba		33 Vikānn	•	
4160	1 33	1		1	1058-59	32 Vilamba		34 Sārvarın	•	3 Jyështha .
4161	1	1		234 35	1059 60	33 Vikārin	•	35 Plava .	•	•
4162	- [- {	1		*1080-61	34 Sarvann	•	36 Subhakmt	•	12 Phālguma .
4162	1	1	1	}	1		•	37 Söbhare	•	•••
4164 4164							•	38 Krödhin	•	
416	1			1	1	1	•	'39 Viśvāvasu		8 Kārttīks .
416	_ {	7 112 38 11:					•	40 Parabhava		
416		39 11:	1	1	-		•	41 Playanga		
418	•	00 11				1	•	42 Kilaka .	•	5 Šeāvaņs .
415	1	91 11		1		1	•		•	•••
===			"	- 243.41	*1088 69	42 Kilaka.	•	44 Sādhārana	•	***

[†] By the "Indian Calendar" 6 Bhadrapada was the intercalated month.

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1 Ārya Siddhāuta, mean system.

		·		1 Arya	Siddhänta, me	an system.		
	C	OMMENCEM	ENT OF THE					
Mean :	SOLAR YEAR.			Mean luni-solar year (mean sunrise of civil day on which Chaitra Surla 1 ends)				
Day and month, A.D.	Week-day.	Time of mean Mēsha- samkrānti	Day and month, A.D	Week-day.	a (here=t, the index of the tithi)			
13	14	17	19	20	23	1		
25 Mar. (85) .	1 Sun.	H M S. 5 32 80	2 Mar (62)	6 Fn	19 4454	4146		
25 Mar (84)	2 Mon	11 45 0	21 Mar. (80)	5 Thur.	54.0850	4147		
25 Mar. (84) .	3 Tues	17 57 80	11 Mar. (70)	3 Tues .	268-4003	4148		
26 Mar (85)	5 Thur	0 10 0	28 Feb (59)	0 Sat .	144 0838	4149		
25 Mar (85)	6 Fn	6 22 30	18 Mar (78) .	6 Fri .	178 7233	4150		
25 Mar (84)	0 Sat .	12 35 0	7 Mar (66)	3 Tues .	<i>5</i> 4 4087	4151		
25 Mar (84)	1 Sun	18 47 30	25 Feb (56) .	1 Sun .	268-7219	4152		
26 Mar. (85)	3 Tues	1 0 0	16 Mar (75)	0 Sat.	303 3615	4153		
25 Mar (85)	4 Wed	7 12 30	4 Mar (64) .	4 Wed .	179 0449	4154		
25 Mar. (84)	5 Thur	13 25 0	23 Mar (82) .	3 Tues	213:6845	4155		
25 Mar (84)	6 Fm	19 37 30	12 Mar (71) .	0 Sat	89 3679	4156		
26 Mar. (85)	1 Sun	1 50 0	2 Mar (61)	5 Thur.	303-6882	4157		
25 Mar (85)	2 Mon	8 2 30	19 Mar (79)	3 Tues .	9999-6909 ş	4158		
25 Mar. (84)	3 Tues	14 15 0	9 Mar (68) .	1 Sun .	214 0062	4159		
25 Mar. (84)	4 Wed	20 27 80	26 Feb (57)	5 Thur .	89 6896	4160		
26 Mar (85)	6 Fr	2 40 0	17 Mar (76) .	4 Wed .	124 3292	4161		
25 Mar (85)	0 Sat.	8 52 30	5 Mar (65) .	1 San	th 0-0128	4162		
25 Mar. (84)	1 Sum.	15 5 0	24 Mar. (83) .	0 Sat	34 6522	4168		
25 Mar. (84)	2 Mon	21 17 30	14 Mar (73) .	5 Thur .	248 9675	4164		
26 Mar. (85)	4 Wed, .	3 30 0	3 Mar (62)	2 Mon	124-6509	4165		
25 Mer. (85)	5 Thur	9 42 30	21 Mar (81) .	1 Sun .	159-2905	4166		
25 Mar (84)	6 Fm .	15 55 0	10 Mar. (69)	5 Thur .	34 9739	4167		
25 Mar. (84)	0 Sat	22 7 30	28 Feb (59) .	3 Tues	249 2892	4168		
26 Mar (85) .	2 Mon	4 20 0	19 Mar (78) .	2 Mon	283 9288	4169		
25 Mar (85)	3 Tues	10 32 30	7 Mar (67)	6 Fri -	159 6122	4170		
l	<u> </u>	1	d The simil day sort		A . a Aba Smt	dev of		

§ As a mean tithi Chaitra Sukla I was expunged. The civil day corresponding to it, s ¢, the first day of the lumi-solar year was as given in cols 19, 20

TABLE

				CONCU	RRENT Y	EAR.		
Kalı	Saka.	Vikrama	solar year al	Kollam	AD	Jovian 8	AMVATSARA.	Mean Intercalated (adhika) lunar month
	-i	Chatradı	Meshādı solar in Bengal	1xonagn		Southern system	Northern system	monen
1	2	3	3a	4	5	6	7	8a
4171	992	1127	478	244 45	1069 70	43 Saumya	45 Virodhakrit	1 Chartra
4172	993	1128	477	245 46	1070 71	44 Sādhārana	46 Parıdhāvın	
4 173	994	1129	478	246 47	1071-72	45 Virödhakrit	47 Pramādin	10 Pausha
4174	995	1130	479	247 48	*1072-73	46 Paridhāvin	48 Ānanda)
4175	996	1131	480	248 49	1073 74	47 Pramādin	49 Rākshasa	
4176	997	1132	481	249 50	1074 75	48 Ananda	50 Anala	6 Bhādrapada
4177	998	1133	482	250 51	1075 76	49 Rākshasa	51 Pingala †	
4178	999	1134	483	251-52	*1078 77	50 Anala	53 Siddhärthin	
4179	1000	1135	484	252 53	1077 78	51 Pingala	54 Raudra	3 Jyčshtha .
4180	1001	1136	485	253 54	1078 79	52 Kālayukta	55 Durmati	
4181	1002	1137	486	254 55	1079 80	53 Siddhärthin	56 Dundubli	11 Māgha
4182	1003	1138	487	255 56	*1080 81	54 Raudra	57 Rudhırödgärın	
4183	1004	1139	488	256 57	1081 82	55 Durmatı	58 Raktāksha .	
4184	1005	1140	489	257 58	1082 83	56 Dundubhi	59 Krödhana	8 Kārttika
4185	1006	1141	490	258 59	1083 84	57 Rudhırödgärin	60 Kshaya	
4186	1007	1142	491	259 60	*1084 85	58 Raktāksha	l Prabhava	
4187 4188	1008	1143	492	260 61	1095 86	59 Krōdhana	2 Vibhava	4 Åshādha
4189	1009	1144	493	261 62	1086 87	60 Kahaya	3 Sukla .	
4190	1010	1145	494	262 63	1087 88	1 Prabhava	4 Pramõda	
4191	1011	1146	495	263 64	*1088 89	2 Vibhava	5 Prajāpatı	1 Chartra
4192	1012	1147	496	264 65	1089 90	3 Sukla	6 Angiras .	}
4193	1013	1148	497	265 66	1090 91	4 Pramēda	7 Śrimukha .	9 Märgasira
4194	1015	1149	498	266 67	1091-92	5 Prajāpatı	8 Bhāva	1
4195	i	1150	409	267 68	*1092 93	6 Angras	9 Yuvan	. 1
	1016 1151 500 268 60		1093 94	7 Srimukha	10 Dhātrı	6 Bhādrapada		

^{† 52} Kālayukta was suppressed in the north.

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1 Arya Siddhanta, mean system.

1 Arya Biddugata, inc											
	C	OMMENCEMI	ENT OF THE								
Mean s	OLAB YEAR.		MEAN LUNI-SOLAR CIVIL DAY ON WHIC	Kalı yenr.							
Day and month, &D.	Week-day	Time of mean Mësha- samkränti	Day and month, AD.	Week-day.	a (here=t, the index of the tithi)						
13	14	17	19	20	23	1					
25 Mar (84)	4 Wed.	H. M. S.	24 Feb (55) .	3 Tues .	35 2955	4171					
25 Mar (84)	5 Thur.	22 57 30	15 Mar. (74) .	2 Mon.	69 9351	4172					
26 Mar (85) .	0 Sat	5 10 O	5 Mar (64)	0 Sat .	284 2504	4173					
25 Mar (85)	1 Sun .	11 22 30	23 Mar. (83)	6 Fra	318 8901	4174					
25 Mar (84)	2 Mon .	17 35 0	12 Mar (71)	3 Tues .	194 5734	4175					
25 Mar (84)	3 Tues .	23 47 30	1 Mar. (60)	0 Sat .	70 2568	4176					
26 Mar (85)	5 Thur	6 0 0	20 Mar (79) .	6 Fr1	104 8964	4177					
25 Mar. (85) .	6 Fm .	12 12 30	9 Mar (69)	4 Wed .	319 2116	4178					
25 Mar. (84)	0 Sat .	18 25 0	26 Feb (57) .	1 Sun	194 8950	4179					
26 Mar. (85)	2 Mon	0 37 30	17 Mar (76) .	0 Sat .	229 5347	4180					
26 Mar. (85)	3 Tues	6 50 0	6 Mar. (65) .	4 Wed .	105 2180	4181					
25 Mar. (85)	4 Wed	13 2 30	24 Mar. (84) .	3 Tues	139 8576	4182					
25 Mar. (84)	5 Thur	19 15 0	13 Mar (72) .	0 Sat	15 5410	4183					
26 Mar. (85)	0 Sat .	1 27 30	3 Mar (62) .	5 Thur	229 8563	4184					
26 Mar. (85)	I Sun	7 40 0	22 Mar (81) .	4 Wed	264 4959	4185					
25 Mar (85).	2 Mon.	13 52 30	10 Mar. (70) .	1 Sun	140 1793	4186					
25 Mar. (84)	3 Tues	20 5 0	27 Feb (58) .	5 Thur	15 8627	4187					
26 Mar. (85) .	5 Thur	2 17 30	18 Mar (77) .	4 Wed.	50 5023	4188					
26 Mar (85)	6 Fri	8 30 0	8 Mar (67) .	2 Mon.	264 8176	4189					
25 Mar (85) .	0 Sat.	14 42 30	25 Feb (56) .	6 Fm .	140 5009	4190					
25 Mar. (84)	1 Sun.	20 55 0	15 Mer (74) .	5 Thur	175 1405 50 8239	4191 4192					
26 Mar. (85)	3 Tues .	9 20 0	4 Mar (63) . 23 Mar. (82)	2 Mon	85 4636	4193					
25 Mar. (85)	4 Wed . 5 Thur .	9 20 0	12 Mar (72)	6 Fri.	299 7788	4194					
25 Mar. (84)	6 Fm.	21 45 0	1 Mar (60) .	3 Tues	175-4622	4195					

TABLE

		krama.	ar year			Joyian Sa	Biyatsaba	Mean Intercalated (adhika) lunar
Kali.	Saka.	Chattādı Vikrams.	Mëshādı solar xa Bengal.	Kollam	AD.	Southern system.	Northern system	month
1	2	3	3a	4	5	6	7	8a
4196	1017	1152	501	269-70	1094-95	8 Bhāva	11 Iśvara .	•
4197	1018	1153	502	270-71	1095-96	9 Yuvan	12 Bahudhānya .	
4198	1019	1154	503	271-72	*1096-97	10 Dhātrı .	13 Pramäthin .	3 Jyështha † .
4199	1020	1155	504	272-73	1097-98	11 Iévara	14 Vikrama .	
4200	1021	1156	505	273-74	1098-99	12 Bahudhānya	15 Vrisha	11 Mägha .
4201	1022	1157	506	274-75	1099-00	13 Pramāthin ,	16 Chitrabhānu .	•••
4202	1023	1158	507	275 76	*1100-01	14 Vikrama .	17 Subhānu .	
4203	1024	1159	508	276-77	1101-02	15 Vrisha .	18 Tärana	8 Kärttika .
4204	1025	1160	509	277-78	1102 03	16 Chitrabhānu .	19 Pārthīva .	••
4205	1026	1161	510	278 79	1103-04	17 Subhānu .	20 Vyaya	••
4206 4207	1027	1162	511	279-80	*1104-05	18 Tāraņa	21 Sarvajit .	4 Āshādha .
4208	1028	1163	512	280 81	1105 06	19 Pārthiva .	22 Sarvadhārın .	
4209	1029	1164	513	281-82	1106 07	20 Vyaya .	23 Virödhin .	••
4210	1030	1165	514	282-83	1107-08	21 Sarvajit .	24 Vikrita .	l Chartra .
4211	1032	1166	515	283-84	*1108-09	22 Sarvadhāmn .	25 Khara	••
4212	1033	1167	516	284 85	1109-10	23 Virōdhin .	26 Nandana .	9 Mārgasira .
4213	1034	ł	}	1		24 Vikrita	27 Vijaya .	
4214	- 1	1	}	1	1111-12	1	28 Jaya	
4215	1		1	1	*1112 13		29 Manmatha .	6 Bhādrapada
4216	1037	1		1		1	30 Durmukha	<u> </u>
4217	1038	1		1		1	31 Hēmalamba	
4218	1039	1174	1	1	1			2 Vaišākha .
4219	1 -02	117	5 52	1			33 Vikārin .	
4220	104	117	6 52	1			34 Sārvarın	11 Māgha

By the "Indian Calendar" 2 Vaisakha was intercalated.

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1 Ārya Siddhānta, mean system.

1 Arya Siddhānta, me											
	CO	imencemen	T OF THE								
Mean s	OLAR YEAR.		Mean luni solar civil day on whic	Kalı year.							
Day and month, A D	Week-day	Time of mean Mēsha- samkrānti.	Day and month,	Week-day.	a (here=t, the index of the tithi)						
13	14	17	19	20	23	1					
26 Mar (85) .	1 Sun .	H M S 3 57 30	20 Mar (79) .	2 Mon.	210 1018	4196					
26 Mar. (85)	2 Mon .	10 10 0	9 Mar. (68)	6 Fn	85 7852	4197					
25 Mar (85) .	3 Tues	16 22 30	27 Feb (58) .	4 Wed	300-1005	4198					
25 Mar (84) .	4 Wed	22 35 0	16 Mar (75) .	2 Mon.	9996 1082†	4199					
26 Mar (85)	6 Fri	4 47 30	6 Mar (65)	0 Sat	210-4235	4200					
26 Mar (85) .	0 Sat	11 0 0	25 Mar (84) .	6 Fm	245 0630	4201					
25 Mar (85)	1 Sun	17 12 30	13 Mar (73) .	3 Tues	120 7464	4202					
25 Mar (84)	2 Mon .	23 25 0	2 Mar (61)	0 Sat.	9996-4298†	4203					
26 Mar (85)	4 Wed.	5 37 30	21 Mar. (80)	6 Fn .	31 0694	4204					
26 Mar. (85)	5 Thur	11 50 0	11 Mar. (70) .	4 Wed .	245 3847	4205					
25 Mar (85)	6 Fm	18 2 30	28 Feb (59)	1 Sun	121 0681	4208					
26 Mar (85) .	1 Sun	0 15 0	18 Mar (77) .	0 Sat.	155-7077	4207					
26 Mar. (85)	2 Mon	6 27 30	7 Mar (66) .	4 Wed .	31-3911	4208					
26 Mar. (85)	3 Tues.	12 40 0	25 Feb (56)	2 Mon .	245 7063	4209					
25 Mar (85)	4 Wed	18 52 30	15 Mar. (75) .	1 Sun	280-3460	4210					
26 Mar (85)	6 Fr	1 5 0	4 Mar (63)	5 Thur	156 0293	4211					
26 Mar. (85) .	0 Sat	7 17 30	23 Mar (82)	4 Wed	190 6690	4212					
26 Mar (85)	I Sun	13 30 0	12 Mar (71)	1 Sun	68-3524	4213					
25 Mar. (85) .	2 Mon	19 42 30	1 Mar (61) .	6 Fr	280 6676	4214					
26 Mar. (85)	4 Wed.	1 55 0	20 Mar. (79)	5 Thur.	315-3072	4215					
26 Mar. (85)	5 Thur.	8 7 30	9 Mar. (68)	2 Mon.	190 9905	4216					
26 Mar. (85) .	6 Fn	14 20 0	26 Feb. (57)	6 Fri	66 6740	4217					
25 Mar (85)	0 Sat	20 32 30	16 Mar. (76)	5 Thur.	101-3136	4218					
26 Mar. (85)	2 Mon.	2 45 0	6 Mar (65) .	3 Tues.	315 6288	4219 4 220					
26 Mar. (85)	3 Tues	8 57 30	24 Mar (83) .	1 Sun.	11 6365						
		I and a second mark	d. The civil day corr	responding to i	t, f.e., the fire	t day of					

† As a mean tithi Chaitre Sukla I was expunged. The civil day corresponding to it, i.e., the first day of the lum solar year was as given in cols. 19, 20.

					CONCU	RRENT Y	EAR					
		ama.		year				Jovian	Sam	vatsara	Mean Intercalated (adhika) lunar	
Kalı	Saka	Obertradi Vikrama	Constitution	Meshidi solar ın Bengal	Kollam	AD		Southern system		Northern system.	month	
1	2		3	3a	4	5		6		7	8a	_
4221	104	2 11	177	526	294 9	1119 20	3:	Vikārin		36 Subhakrit .	 7 Āšviņs	
4222	104	3 1	178	527	295 9	*1120 2	l 3	l Särvarın	• }	37 Söbhana .	7 Asvins	l
4223	104	4 1	179	528	296 9	7 1121 2	2 3	5 Plava	•	38 Krödhin .		-
4224	104	5 1	180	529	297-9	8 1122 2	3 3	8 Subhakrit	•	39 Viśvāvasu .	4 Āshādha	1
4225	104	6 1	181	530	298 9	9 1123-2	4 3	7 Sõbhana		40 Parābhava .	4 Asnadus	
,4226	104	17 1	1182	531	299 0	0 +1124-2	5 3	8 Krōdhın	•	41 Playanga .		
4227	10	18 3	1183	532	300 (1 1125-2	6 3	9 Viévāvasu	٠	42 Kilala	12 Phälguna	
4228	10	19	1184	533	301-0	2 1126 2	27	0 Parābhava		43 Saumya		
4229	10	50	1185	534	302-0	3 1127-9	28	11 Piavanga	٠	44 Sādhāraņa .	t	
4230	10	51	1186	538	303	04 *1128 :	29	12 Kilaka		45 Virôdhakrit	9 Mārgašīra	1
4231	10	52	1187	530	8 304	05 1129	30	43 Saumya		46 Paridhāvin	•	
423	2 10	053	1188	53	1		31	44 Sādhārana				
423	1	054	1189	53	8 306	07 1131	32	45 Virödhakri		48 Ānanda	6 Bhādrapad	•
423	I I	055	1190	` } ``	1		33	46 Parıdhāvın			•	ı
423	· }	.056	119]	1			47 Pramādin		50 Anala .	2 Varsākha	-
42	t	1057	119	1	11 309	l	- {	48 Ananda	•	51 Pingala	. 2 Valsakus	1
42	1	1058 1059	119	1	- 1	-11 1135		49 Rākshasa	•	1	. 11 Māgha	
4 2	- 1	1060	119	. 1	Ì	-12 *1136		50 Anala		. 53 Siddhārthin		
	40	1061	1	1	1	2-13 1137 3-14 1138		51 Pingala52 Kālayukta		. 54 Raudra . 55 Durmatı		
	241	1062	1	- 1	- {	l l	3 38 9-40	53 Siddhārth		56 Dundublu	7 Aśvina	
	242	1063	1	- }	1	5-16 +114		55 Raudra		57 Rudhırödgär	1	
6	243	1064	4 \ 11	\	1	1	1-42	55 Durmatı		. 58 Raktāksha		
4	244	106	5 1:	200	l	l l	2 43	56 Dundubh		. 59 Krōdhana	. 4 Āshādha	•
· <u>·</u>	245	106	6 1	201	550 3	18-19 114	13-44	l .		n 80 Kshaya		

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1 Ārya Siddbānta, mean system.

COMMENCEMENT OF THE											
Mean	SOLAR YEAR.		MPAN LUMI SOLAF CIVIL DAY ON WHIC	Kalı year							
Day and month, A D	Week day	Time of mean Misha- samkranti	Day and month, A.D.	Week day	a (here=!, the index of the tithi)						
13	14	17	19	20	23	1					
		H M. 8									
26 Mar. (85)	4 Wed .	15 10 0	14 Mar (73)	6 Fn .	225 9518	4221					
25 Mar. (85)	5 Thur	21 22 30	2 Mar. (62)	3 Tues	101 6352	4222					
26 Mar. (85)	0 Sat	3 35 0	21 Mar (80)	2 Mon	136 2748	4223					
26 Mar (85)	1 Sun .	9 47 30	10 Mar (69)	6 Fra .	11 9582	4224					
26 Mar (85)	2 Mon .	16 0 0	28 Feb (59) .	4 Wed	226 2735	4225					
25 Mar (85)	3 Tues .	22 12 30	18 Mar (78)	3 Tues.	260 9131	4226					
26 Mar (85)	5 Thur	4 25 0	7 Mar. (66)	0 Sat .	136 5965	4227					
26 Mar (85) .	6 Fn	10 37 30	26 Mar (85)	6 Fri	171 2360	4228					
26 Mar (85)	0 Sat .	16 50 0	15 Mar (74) .	3 Tues	46 9195	4229					
25 Mar (85)	I Sun .	23 2 30	4 Mar (64)	1 Sun .	261 2348	4230					
26 Mar. (85)	3 Tues .	5 15 0	23 Mar (82)	0 Sat	205 8744	4231					
20 Mar. (85)	4 Wed.	11 27 30	12 Mar (71)	4 Wed .	171 5578	4232					
26 Mar (85)	5 Thur.	17 40 0	1 Mar (60) .	1 Sun	47 2411	4233					
25 Mar. (85) .	6 Fra .	23 52 30	19 Mar (79) .	0 Sat	81 8807	4234					
26 Mar. (85) .	1 Sun	6 5 0	9 Mar (09)	5 Thur	296 1960	4235					
26 Mar (85)	2 Mon .	12 17 30	26 Feb (57) .	2 Mon	171 8794	4236					
26 Mar (85)	3 Tues .	18 30 0	17 Mar (76) .	1 Sun	206 5190	4237					
26 Mar (86)	5 Thur	0 42 30	5 Mar (65)	5 Thur .	82 2024	4238					
26 Mar. (85) .	6 Fri	0 55 0	24 Mar (83)	4 Wed.	116 8420	4239					
26 Mar (85)	0 Sat .	13 7 30	14 Mar (73) .	2 Mon	331 1573	4240					
26 Mar (85)	1 Sun .	19 20 0	3 Mar (62)	6 Fri.	206 8407	4241					
26 Mar (86) .	3 Tues	1 32 30	21 Mar. (81)	5 Thur .	241 4803	4242					
26 Mar (85)	4 Wed.	7 45 0	10 Mar (69)	2 Mon .	117 1637	4243					
26 Mar. (85)	5 Thur .	13 57 30	28 Feb (59)	Sat .	· · · · · · · · · · · · · · · · · · ·	4244					
26 Mar. (85)	6 Fra.	20 10 0	18 Mar (77) . 5	Thur .	27 4867	<u> 4245</u>					

TABLE

	CONCURRENT YEAR											
		krams	ar year			Jovian Sa	Myatsara	Mean Intercalated				
Kalı	Saka	Chatrādı Vikrams	Mēshādı solar ın Bengal	Kollam	AD	Southern system	Northern system.	(adhika) lunar month				
1	2	3	3a	4	5	6	7	Fa				
4246	1067	1202	551	319-20	*1144 45	58 Raktāksha	l Prabhava .	12 Phälguna .				
4247	1068	1203	552	320 21	1145 46	59 Krödhana	2 Vibhava					
4248	1069	1204	553	321-22	1146 47	60 Kshaya	3 Sukla					
4249	1070	1205	554	322 23	1147-48	1 Prabhava	4 Pramēda	9 Mārgašīra .				
4250	1071	1206	8 55	323-24	*1148 49	2 Vibhava	5 Prajāpatı .					
4251	1072	1207	556	324 25	1149 50	3 Sukla	6 Anguras	•				
4252	1073	1208	557	325 26	1150 51	4 Pramēda	7-Śrīmukha	5 Śrāvaņa .				
4253	1074	1209	558	326 27	1151-52	5 Prajāpatı	8 Bhāva .	•••				
4254	1075	1210	559	327-28	*1152 53	6 Angras	9 Yuvan .					
4255	1076	1211	-560	328 29	1153 54	7 Srīmukha	10 Dhātrı .	2 Varšākha .				
4256	1077	1212	561	329 30	1154 55	8 Bhāva	11 Iśvara .					
4257 4258	1078	1213	562	330-31	1155 56	9 Yuvan	12 Bahudhānya	10 Pausha .				
4259	1079	1214	563	331-32	*1156 57	10 Dhātrı	13 Pramāthin .					
4260	1080	1215	564	332-33	1157 58	II Iśvara .	14 Vikrama .					
4281	1081	1216	565	333 34	1158-59	12 Bahudhānya	15 Vrisha	7 Āsvina .				
4262	1083	1217	566	834-35	1159 60	13 Pramäthin .	16 Chitrabhānu	***				
4263	1084	1218 1219	567	335 36	*1160 61	14 Vikrama	17 Subhānu*					
4284	1085	1219	568	336 37	1161-62	15 Vrisha.	19 Pārthīva	3 Jyështha .				
4285	1086	1221	1	337-38]	16 Chitrabhānu	20 Vyaya .					
4288	1087	1222	1	838-39	1163 64	17 Subhānu	21 Sarvajit	12 Phälguna .				
4267	1068	}	1	389-40	*1164-65	18 Tārana .	22 Sarvadhärın					
4268	1089	1	1	}	1165 66	19 Pārthīva	23 Virödhin	,				
4289	1090	1	1	1		20 Vyaya	24 Vikņita .	8 Kärttika .				
4270	1091	1226	ì	1 20	1	21 Servant	25 Khara .					
				* 18	1	22 Sarvadhārm .	26 Nandana					

^{* 18} Tarana was suppressed in the north.

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1 Ārys Siddhānta, mean system.

		ENT OF THE	CEM	OMMEN		l						
	COMMENCEMENT OF THE											
		Mean Luni-solar civil day on whic			OLAR YEAR.	Mean :						
a (here=t, the index of the tith)	Week-day.	Day and month, A.D	ēsha-	Time mean M samkrä	Day and month, Week-day.							
23 1	20	19		17	14	13						
241 8019 4248	3 Tues	7 Mar (67) .	S 30	H M 2 22	1 Sun	26 Mar (86) .						
276 4415 4247	2 Mon .	26 Mar. (85) .	0	8 35	2 Mon .	26 Mar (85)						
152 1249 4248	6 Fri .	15 Mar (74) .	30	14 47	3 Tues .	26 Mar (85) .						
27 8084 424P	3 Tues .	4 Mar (63)	0	21 0	4 Wed .	26 Mar (85)						
62-4479 4250	2 Mon	22 Mar (82) .	30	3 12	6 Fm .	26 Mar. (86) .						
276 7631 4251	0 Sat	12 Mar (71)	0	9 25	0 Sat .	26 Mar (85) .						
152-4465 4252	4 Wed .	1 Mar (60)	30	15 37	1 Sun .	26 Mar. (85) .						
187 0861 4258	3 Tues	20 Mar (79)	0	21 50	2 Mon.	26 Mar (85) .						
62 7695 4254	0 Sat .	8 Mar. (68) .	30	4 2	4 Wed .	26 Mar (86) .						
277 0848 4255	5 Thur	26 Feb (57) .	0	10 15	5 Thur	26 Mar (85) .						
311 7245 4256	4 W.ed .	17 Mar (76)	30	16 27	6 Fr.	26 Mar (85).						
187 4078 4257	I Sun .	6 Mar (65) .	0	22 40	0 Sat .	26 Mar (85)						
222-0474 4258	O Sat .	24 Mar. (84)	30	4 52	2 Mon	26 Mar (86) .						
98 1308 4259	4 Wed	13 Mar (72)	0	11 5	3 Tues .	26 Mar (85)						
312 0461 4260	2 Mon.	3 Mar (62)	30	17 17	4 Wed	26 Mar (85)						
8 0538 4261	O Sat .	21 Mar. (80)	0	23 30	5 Thur	26 Mar (85).						
222 3691 4262	5 Thur.	10 Mar (70) .	30	5 42	0 Sat	26 Mar (86).						
98 4525 4263	2 Mon	27 Feb (58) .	0	11 55	1 Sun	26 Mar. (85) .						
132 6822 4264	1 Sun	18 Mar (77) .	30	18 7	2 Mon	26 Mar. (85)						
8 3755 4265	5 Thur	7 Mar (66) .	0	0 20	4 Wed .	27 Mar. (86) .						
43 0151 4266	4 Wed.	25 Mar (85) .	30	6 32	5 Thur .	26 Mar. (86)						
257 3504 4267	2 Mon	15 Mar (74) .	5 0	12 45	6 Fm .	26 Mar (85) .						
133 0138 4268	6 Fri .	4 Mar. (63)	30	18 57	0 Sat .	26 Mar (85)						
167 6434 4269	5 Thur .	23 Mar (82) .	0	1 10	2 Mon .	27 Mar. (86)						
43 3368 4270	2 Mon	11 Mar. (71) .	30	7 22	3 Tues	26 Mar. (86)						

			<u> </u>		COI	CURR	ENT YEA	R.		
			rama	r year				Joyian Sam	VATSARA	Mean Intercalated (adhika) lunar
Kalı	Saka		Chaitrādi Vikrama	Meshādı solar ın Bengal	Ko	lam	AD	Southern system	Northern system	month
1	2		3	3a		4	5	6	7	8a
4271	109	2	1227	576	34	4 45	1169 70	23 Vırödhın .	27 Vijaya	5 Srāvaņa .
4272	109	3	1228	577	34	15 46	1170 71	24 Vikrita .	28 Jaya	
4273	109	94	1229	578	3 3	46 47	1171-72	25 Khara .	29 Manmatha .	l I
4274	10	95	1230	57	9 з	47 48	*1172-73	26 Nandana .	30 Durmukha .	2 Variākbs .
4275	10	96	1231	58	o a	48 49	1173 74	27 Vijaya	31 Hëmalamba .	
4276	10	97	1232	58	1 a	49 50	1174-75	28 Jaya .	32 Vilamba .	10 Pausha .
4277	10	98	1233	58	2 3	350 51	1175-76	29 Manmatha .	33 Vikārin .	
4278	10	099	1234	. 5	33 3	351-52	*1176 77	30 Durmukha .	34 Sārvarin .	,
4279	1	100	1235	5 5	34 :	352 53	1177-78	31 Hēmalamba .	35 Plava	7 Āsvina •
4280) 1	101	1236	3 5	85	353 54	1178 79	32 Vilamba .	36 Subhakrit .	
428	1 1	102	123'	7 5	86	354-55	1179 80	33 Vikārin	37 Sobhana .	
428	_ `	1103	123	8 5	87	355 56	*1180 81	34 Sārvarın .	38 Krōdhin .	3 Jyështha .
428	· }	1104			88	356 57	1181-82	35 Plava	39 Viśvāvasu .	
428		1105		_ `	589	357-58			40 Parābhava	. 12 Phälguna .
428	1	1106		- 1	590	358-59			41 Plavanga	•
42	87	1107			591	359 60			42 Kilaka .	•
	88	110	1	43	592	360 61	1	į.	43 Saumya	. 8 Kārttika .
	289	111	- 1	45	593 594	361 62	j		44 Sādhārana	• • • • • • • • • • • • • • • • • • • •
	290	111	- 1	246	595	362 63 363 6		1	. 45 Virodhakrit	
4	291	111	j	247	598	364 6	1	1	. 46 Paridhävin	. 5 Śrāvana .
4	292	11	- 1	248	597	365 6			47 Pramādin 48 Ānanda	.
4	293	111	14 1	249	598	366 6			40 Rākshasa	1 Chartra
4	1294	11	15 1	250	599	367	1		50 Anala	- L Onsiera
~	4295	11	116 1	1251	600	368	ł	_	. 51 Pingala	. 10 Pausha .

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1 Arya Siddhānta, mean system.

I Arya Siddhānta, me													, mean system		
			CC	MM	ENC	EM.	en	r of	THE	ŀ					
M	EAN	SOLAR YEAR	ì.					Mean Luni-solab year (mean sunrise of civil day on which Chaitra Sukla 1 ends)						r Kalı year	
Day and month, A D Week day.				m.	Time of mean Mēsha- samkrānti			Day and month, AD			Week-day		a (here=i	,	
13	~	14			17	7	- -		19		_	20)	23	1
26 Mar (85) 26 Mar (85)	•	4 Wed	•	H 13	35	6	1		r (60	-	•	}	•	257-6521	4271
27 Mar. (86)		0 Sat	•	2	_,		1		ir (79 ir (68	•	•	6 Fri 3 Tues	•	292 2917 167 9751	4272 4273
26 Mar. (86) .	•	1 Sun.		8	12	·	1		b. (57)	-	•	0 Sat	_	43 6684	4274
26 Mar. (85)	•	2 Mon		14	25	0	ł		r. (75		•	6 Fr.	•	78 2981	4275
26 Mar (85).	•	3 Tues		20	37	30			r (65)		•	4 Wed.		292 6133	4276
27 Mar (86).		5 Thur.		2	50	0			r (84)	='	•	3 Tues.	- 1	327 2528	4277
26 Mar (86).		6 Fn.	•	9	2	30	ŧ		· (73)		•	0 Sat		202 9372	4278
26 Mar (85)		0 Sat	• ,	15	15	0	ł		(61)		•	4 Wed.		78 6196	4279
26 Mar (85).		1 Sun		21	27	30	t		. (80)			3 Tues,		113 2593	4280
27 Mar (86)	•	3 Tues		3	40	0	ı		. (70)			1 Sun.		≥ 327 5745	4281
26 Mar. (86)	•	4 Wed.	.	9	52	30	ł	B Feb				5 Thur.		203 2579	4282
26 Mar (85)	•	5 Thur.		16	5	0	ł		(77)			4 Wed.		237 8975	4283
20 Mar (85)		6 Fra.	.]	22	17	30	•	7 Mar		•		1 Sun.		113 5809	4284
27 Mar. (86) .	•	1 Sun.	.]	4	30	0	20	3 Mar	(85)	•		0 Sat.		148 2205	4285
26 Mar. (86) .	•	2 Mon.	1	10	42	30	14	Mar	(74)			4 Wed.		23 9039	4286
26 Mar. (85)	•	3 Tues .	Ì	16	55	0	4	Mar	(63)	•		2 Mon.		238 2192	4287
26 Mar (85).	•	4 Wed	1	23	7	30	23	Mar	(82)			1 Sun.		272 8588	4288
27 Mar (86).	.	6 Fm	1	5	20	0	12	Mar	(71)			5 Thur.		148 5422	4253
26 Mar (86).	•]	O Sat .	1	11	32	30	29	Fob	(60)			2 Mon.		24 2256	4200
26 Mar (85) .	ļ	1 Sun	1	17	45	0	19	Mar	(78)		Ì	1 Sun.		58 8452	4291
26 Mar. (85) .		2 Mon .		23	67	30	9	Mar	(68)	•		6 Fri		273 1805	4299
27 Mar (86)	\cdot	4, Wed	}	6	10	0	20	Feb	(57)	•		3 Tues		148 8038	4293
26 Mar. (86) .	•	5 Thur				30		Mar		•		2 Mon	•	183 5035	4204
26 Mar. (85)	•	6 Fri.		18	35	0	5	Mar	(04)		ļ	6 Fra		59 1868	4206

Kalı,	Saka	Vıkrama.	solar year			Joyian Sa	Myatsara	Mean Intercalated (adhika) lunar
	DEAG	Chattradı Vıkrama.	Měshādı solar ın Bongal	Kollam	A.D	Southern system	Northern system	month
1	2	3	3 <i>a</i>	4	5	6	7	8a
42 96	1117	1252	601	369-70	1194-95	48 Ānanda .	52 Kālayukta .	***
4297	1118	1253	602	370 71	1195 96	49 Rākshasa .	53 Siddhärthin .	• •
4298	1119	1254	603	371-72	*1196 97	50 Anala	54 Raudra .	6 Bhādrapada
4299	1120	1255	804	372 73	1197-98	51 Pingala .	55 Durmati	•
4300	1121	1256	605	373 74	1198-99	52 Kālayukta .	56 Dundublu	••
4301	1122	1257	606	374-75	1199 00	53 Siddharthin .	57 Rudhırödgārın	3 Jyështha
4302	1123	1258	607	375 76	*1200 01	54 Raudra	58 Raktāksha	
4303	1124	1259	608	§376 77	1201-02	55 Durmati .	59 Krōdhana .	11 Māgha .
4304	1125	1260	609	377-78	1202 03	56 Dundubhı .	60 Kshaya	•••
4305	1126	1261	610	3 78-79	1203 04	57 Rudhirödgārin	1 Prabhava	•••
4306	1127	1262	611	379 80	*1204 05	58 Raktāksha .	2 Vibhava	8 Kārttīka .
4307 4308	1128	1263	612	380 81	1205-06	59 Krödhana .	3 Sukla	
4309	1129	1264	613	381-82	1206 07	60 Kshaya .	4 Pramöda .	
4310	1130	1265	614	382-83	1207-08	1 Prabhava .	5 Prajāpatı .	5 Srāvaņa .
4311	1132	1266	615	383 84	*1208 09	2 Vibhava .	6 Angiras .	
4312	1132	1267	616	384 85	1209-10	3 Sukla	7 Srimukha .	
4313	1134	1268 1269	617	885 86	1210 11	4 Pramoda .	8 Bhāva	1 Chaitra
4314	1135	1270	618	386 87	1211-12	1	9 Yuvan .	•••
4315	1136	1271	620	387-88	*1212-13		10 Dhātrı .	10 Pausha
4316	1137	1	621	388 89	1216-14	1	11 Isvara	
4317	1138	1	i	389-90	1214-15	{	12 Bahudhānya	
4318	1139	1	1		1215-16	1	13 Pramāthın .	6 Bhādrapada
4319	1140	1275	1	1	*1216-17	10 Dhātri .	14 Vikrama	
4320	1141	1276	1	1	1		15 Vrisha . 16 Chitrabhānu	3 Jyështha .

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1 Ārya Siddhānta, mean system.

I Arya Sidonanta, m										
	CO	MMENCEME	NT OF THE							
Mean :	SOLAR YEAR.		Mean Luni-solae Givil day on Whic	Kalı year.						
Day and month, A D	Week day	Time of mean Misha- samkränti	Day and month, A D	Weok-day	a (here=i, the index of the tithi)					
13	14	17	19	20	23	1				
27 Mar. (86)	1 Sun.	H M S	24 Mar (83) .	5 Thur.	93 8264	4296				
27 Mar (86)	2 Mon	7 0 0	14 Mar (73)	3 Tues .	308 1417	4297				
26 Mar (86)	3 Tues.	13 12 30	2 Mar. (62)	0 Sat .	183 8251	4298				
26 Mar. (85)	4 Wed.	19 25 0	21 Mar (80)	6 Fri	218 4647	4299				
27 Mar. (86) .	6 Fri	1 37 3)	10 Mar (69) .	3 Tues	94 1481	4300				
27 Mar (86) .	0 Sat	7 50 0	28 Feb (59)	1 Sun	308 4634	4301				
26 Mar. (86)	1 Sun	14 2 30	17 Mar (77)	6 Fm .	4 4711	4302				
26 Mar (85)	2 Mon	20 15 0	7 Mar (66)	4 Wed.	218 7864	4303				
27 Mar. (86)	4 Wed	2 27 30	26 Mar (85)	3 Tues	253 4359	4304				
27 Mar (86) .	5 Thur .	8 40 0	15 Mar (74)	O Sat .	129 1004	430€				
26 Mar (86)	6 Fra:	14 52 30	8 Mar (63) .	4 Wed	4 7927	4306				
26 Mar (85)	0 Sat .	21 5 0	22 Mar (81)	3 Tues .	39 4324	4307				
27 Mar (86)	2 Mon	3 17 30	12 Mar (71) .	1 Sun .	253 7477	4308				
27 Mar (86) .	3 Tues	9 30 0	1 Mar (00) .	5 Thur .	129 4311	4309				
26 Mar (86) .	4 Wed .	15 42 30	10 Mar. (79)	4 Wed .	164 0707	4310				
26 Mar (85)	5 Thur .	21 55 0	6 Mar (67)	1 Sun	39 7540	4311				
27 Mar (86) .	0 Sat .	4 7 30	26 Feb (57) .	6 Fm	254 0693	4312				
27 Mar (86)	1 Sun	10 20 0	17 Mar (76) .	5 Thur .	288-7089	4313				
26 Mar (86)	2 Mon	16 32 30	5 Mar (65) .	2 Men .	164 3923	4314				
26 Mar (85)	3 Tues	'22 4 5 0	24 Mar (63) .	1 Sun	199 0319	4315				
27 Mar (86)	5 Thur	4 57 80	13 Mar (72)	5 Thur	74 7152	4316				
27 Mar (86)	6 Fri	11 10 0	3 Mar (62)	3 Tues	289 0306	4317				
26 Mar (86) .	O Sat	17 22 30		2 Mon	323 6702	4318				
28 Mar (85)	Î Sun	23 35 0		6 Fri	199 3535	4319				
27 Mar. (86)	3 Tues	5 47 30	27 Feb (58) .	3 Tues	75 0369	4320				
						L 2				

	CONCURRENT YEAR.												
		Vikrama	r year			Joyian Sa	A.M	VATBARA.	Mean Intercalated				
Kalı	Saka	Chaitradi Vik	Mcshādı solar ın Bengal	Kollam	AD.	Southern system.		Northern system.	(adhika) lunar month				
1	2	3	3a	4	5	6		7	8a				
4321	1142	1277	626	394 95	1219 20	13 Pramāthin .		17 Subhānu .					
4322	1143	1278	627	395 96	*1220 21	14 Vikrama .		18 Tāraņa .	11 Mägha				
4323	1144	1279	628	396 97	1221 22	15 Vrisha		10 Pārthiva					
4324	1145	1280	629	297-98	1222 23	16 Chitrabhānu		20 Vyaya .]				
4325	1146	1281	630	398 99	1223 24	17 Subhānu .		21 Sarvajit	8 Kārttika				
4326	1147	1282	631	399 00	*1224-25	18 Tārana		22 Sarvadhärın					
4327	1148	1283	632	400 01	1225-26	19 Pārthīva .		23 Virðdhin					
4328	1149	1284	633	401 02	1226 27	20 Vyaya		24 Vikrita .	. 4 Āshādha	•			
4329	1150	1285	634	402 03	1227-28	21 Sarvajit .	.	25 Khara .		1			
4330	1151	1286	635	403 04	*1228 29	22 Sarvadhārın .	.	26 Nandana	·				
≰ 331	1152	1287	636	404 05	1229 30	23 Virōdhin .	.	27 Vijaya .	. 1 Chaitra				
4332	1153	1288	637	405 06	1230 31	24 Vikrita		28 Jaya .	· ·	1			
4333	1154	1289	638	406-07	1231-32	25 Khara		29 Manmatha	9 Mārgašīra				
4334	1155	1	639	407-08	*1232-33	26 Nandana	•	30 Durmukha	• •				
4335	1156	}	640	1	1233-34	27 Vijaya .	•	31 Hēmalamba					
4336	1157	1	1		1234-35	28 Jaya	•	32 Vilamba	. 6 Bhādrapad	a			
4337 4338	1158		1	1		29 Manmatha	•	33 Vikārin	• •				
4339		}	1	1	1	i	•	34 Särvann	•				
4340				1	1	j	•	35 Plava .	. 2 Vaišākha	•			
4341	1	1			ì		•	36 Subhakrit	•				
4342	1	}	1			1	•	37 Sõbhana	. 11 Māgha	•			
434;	1	-	1	1	<u> </u>	1	•	38 Krödhin 39 Viśvāvasu	• "				
434	118	- 1		1	ł	ł	•	40 Parābhava	7.74				
434	5 110	8 130	ł	1				41 Playanga	7 Āśvina	•			

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1 Arya Siddhanta, mean system .

				I Ary	a Siddhänta, 1	neun system
	CO	MHENCEME	NT OF THE			1
Mean e	OLAR YEAR		Mean luni solar civil day on whic		Kali year	
Day and month, A.D	Week day	Time of mean Misha- samkränti	Day and month, A D.	Week-day	a (here=t, the index of the tithi)	
13	14	17	19	20	23	1
27 Mar (86)	4 Wed	H M 8	18 Mar (77) .	2 Mon .	109 6765	4321
26 Mar (86)	5 Thur.	18 12 30	7 Mar (67)	0 Sat .	323 9918	4322
27 Mar (86) .	0 Sat	0 25 0	25 Mar (84) .	5 Thur	19-9995	4323
27 Mar (86)	1 Sun .	6 37 30	15 Mar (74) .	3 Tues	234 3148	4524
27 Mar (86)	2 Mon .	12 50 0	4 Mar (63) .	0 Snt .	100 9982	4325
26 Mar (86)	3 Tues	19 2 30	22 Mar (82) .	6 Fri	144 6378	4326
27 Mar (86) .	5 Thur .	1 15 0	11 Mar (70) .	3 Tues .	20 3212	4327
27 Mar (86) .	6 Frn	7 27 30	1 Mar. (60)	1 Sun	234 6365	4328
27 Mar (86)	0 Sat	13 40 0	20 Mar (79) .	0 Sat.	269 2761	4329
26 Mar (86) .	1 Sun	19 52 30	8 Mar (68)	4 Wed	144 9594	4330
27 Mar (86)	3 Tues .	2 5 0	25 Feb (56) .	1 Sun	20 6428	4331
27 Mar (86)	4 Wed .	8 17 30	16 Mar (75) .	O Sat .	55 282 4	4332
27 Mar. (86)	5 Thur .	14 30 0	6 Mar (65) .	5 Thur .	269 5977	4333
26 Mar (86)	6 Fri	26 42 30	24 Mar (84) .	4 Wed	304 2373	4334
27 Mar (80) .	1 Sun .	2 55 0	13 Mar (72) .	l Sun .	179 9207	4335
27 Mar (86)	2 Mon .	9 7 30	2 Mar (61) .	5 Thur .	<i>55</i> 6041	4336
27 Mar (86)	3 Tues	15 20 0	21 Mar (80) .	4 Wed	90 2437	4337
26 Mar. (86)	4 Wed	21 32 30	10 Mar (70) .	2 Mon .	304-5590	4338
27 Mar. (86)	6 Fn	3 45 0	27 Feb (58) .	6 Fri	180 2424	4339
27 Mar. (86) .	0 Sat	9 57 30	18 Mar. (77) .	5 Thur.	214 8820	4340
27 Mar. (86)	1 Sun .	16 10 0	7 Mar (66) .	2 Mon	90 5654	.4341
26 Mar (86)	2 Mon .	22 22 30	25 Mar. (85) .	1 Sun	125 204 9	4342
27 Mar (86)	4 Wed .	4 35 0	14 Mar. (73)	5 Thur	0 8884	4343
27 Mar. (86)	5 Thur	10 47 30	4 Mar. (63) .	3 Tues .	215 2037	4344
27 Mar. (86)	6 Fri	17 0 0	23 Mar (82) .	2 Mon	249 8433	4345

					CONC	JRRE	NT YEA	R				
		1	ama.	year				Joyian 8	MA	7ATSARA	Mean Intercalated (adbika) lunar	
Kali.	Sak	(Br.	Chattrādi Vikrama.	Meshadi solar ın Bengal	Kollar	2.	A D	Southern system		Northern system	month	
1	1	2	3	3à	4		5	6	_ _	7	8a	
4346	ł	167	1302	651	1	1	1244 45	38 Krödhin		42 Kilaka	4 Åshādha	
4347		168	1303	652	1		1245-46	39 Viśvāvasu	١	43 Saumyat • 45 Virödhalrit •	# 210Bddano	
4348	} _	169	1304	1		}	1246 47	40 Parabhava		48 Paridhävin .		
4349	1	170	1305	1	1	- 1	1247-48 1248 49	41 Plavanga 42 Kilaka	- \	47 Pramādin •	1 Chartra	
4350 4351	- []	1171 1172	1		- {	- [1248 49	42 Kliaka 43 Saumya		48 Ananda .		
4352	- 1	117:	1	1		26	1250 51	44 Sādhārana		49 Rākshasa	9 Mārgašīra .	
4353	- 1	117	1	1	7	3-27	1251-52	45 Virodhakrit		50 Anala .		
435	4	117	5 13	0 6	59 42	7-28	*1252-53	1		51 Pingala .		
435	5	117	16 13	11 e	60 42	8 29	1253 54	47 Pramādin		52 Kālayukta	6 Bhādrapada	
438	56	11'	77 13	12 6	361 42	9 30	1254-58	48 Ānanda -	•	53 Siddhārthin		
43	57	11	78 13	13	862 4	0 31	1255 5	49 Rākshasa	•	54 Raudra	• [
	58		· { -			31-32	*1256 5				. 2 Varšākha	
-	159	1	- 1	315	111	32 33	1257-5		•	1	•	
	360 361	1	1	316	3	33 34 134 35	1258 6	1		. 57 Rudhirödgär	ın 11 Māgha	
-	362	1	- I	1318	1	135-36	1		ш	. 58 Raktāksha . 59 Krödhana		
	1363	1	- 1	1319	668	436 37	}	1		60 Kshaya	7 Āśvina	
•	1 364		1185	1320	689	437-38	1262	63 56 Dundubh	1	. 1 Prabhava		
	4365	: \	1186	1321	670	438-39	1263	-64 57 Rudhiröd	lgär	n 2 Vibhava	•	
	4366	1	1187	1322	671	439 4	0 +1264	-65 58 Raktāksi	ba	3 Sukla	. 4 Āshādha	
	436	- 1	1188	1323	672	440-4	1		8	4 Pramēda		
	436 436	1	1189	1324 1325	673	441 4	- 1	,		5 Prajāpatı	. 12 Phälguna	
	43		1191	1326	674	442 4	1	7 68 1 Prabhav 8 69 2 Vibbaya		6 Angiras 7 Śrimukha	•	

By the latter system the year A.D 1246-47 was called in the north, "Sädhāraņa"

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1 Ārya Siddhānta, mean system.

Day and month, A.D. Week day Time of man Michael Day and month, A.D. Week day Time of man Michael Day and month, A.D. Week day Time of man Michael Day and month, A.D. Week day Time of man Michael Day and month, A.D. Week day A.D. Week day A.D. The mean Michael Day and month, A.D. Week day A.D. The mean Michael The mean Michael The mean Michael Day and month, A.D. Week day A.D. The mean Michael The mean Micha											
Day and month, A.D. Week day man Mchansamkränti 13		CO	MMENCEME!	NT OF THE							
Day and month, A.D. Week day mean Michae samkränts Day and month, A.D. Week day the index of the tith)	Mean s	SOLAR YEAR,		Mean luni solar civii day on whic	YEAR (MEAN OH CHAITBA ST	SUNRISE OF ORLA 1 ENDS)	Kalı year				
28 Mar (86) . 0 Sat . 23 12 S0 11 Mar (71) 6 Fri 125 5266 4346 27 Mar. (86) . 2 Mon		Week day	mean Misha-		Week day	the index					
26 Mar (86) . 0 Sat . 23 12 30 11 Mar (71) 6 Fr1 125 5266 4346 27 Mar. (86) . 2 Mon	13	14	17	19	20	23	1				
27 Mar. (86) 2 Mon			H M S								
27 Mar (86) 3 Tues 11 37 30 19 Mar (78) 2 Mon 35 8196 4348 27 Mar (88) 4 Wed 17 50 0 9 Mar (68) 0 Sat 250 1649 4349 27 Mar (87) 6 Fri. 0 2 30 26 Feb (57) 4 Wed 125 8482 4350 27 Mar. (86) 0 Sat 6 15 0 16 Mar (75) 3 Tues 160 4878 4351 27 Mar (86) 1 Sun 12 27 30 5 Mar (64) 0 Sat 36 1712 4352 27 Mar (86) 2 Mon 18 40 0 24 Mar (83) 6 Fri 70 8109 4353 27 Mar (87) 4 Wed 0 52 30 13 Mar (73) 4 Wed 285 1202 4354 27 Mar (86) 5 Thur. 7 5 0 2 Mar (61) 1 Sun 160 8095 4355 27 Mar (86) 5 Thur. 7 5 0 2 Mar (61) 1 Sun 160 8095 4356 27 Mar (86) 0 Sat 19 30 0 10 Mar (69) 4 Wed 71 1325 4357 27 Mar (87) 2 Mon 1 42 30 28 Feb (59) 2 Mon 285 4478 4358 27 Mar (86) 3 Tues 7 55	26 Mar (86) .	O Sat .	23 12 30	11 Mar (71)	6 Frı	125 5266	4346				
27 Mar (86) .	27 Mar. (86)	2 Mon	5 25 0	28 Feb (59)	3 Tues	1 2100	4347				
27 Mar (87) 6 Fr. 0 2 30 26 Feb (57) 4 Wed 125 8482 4350 27 Mar. (86) . 0 Sat . 6 15 0 16 Mar (75) 3 Tues . 160 4878 4351 27 Mar (86) . 1 Sun . 12 27 30 5 Mar (64) 0 Sat 36 1712 4352 27 Mar (86) . 2 Mon 18 40 0 24 Mar (83) 6 Fr. 70 8109 4363 27 Mar (87) . 4 Wed 0 52 30 13 Mar (73) 4 Wed . 285 1262 4354 27 Mar (86) . 5 Thur. 7 5 0 2 Mar (61) 1 Sun . 160 8095 4365 27 Mar (86) . 6 Fr. 13 17 30 21 Mar (80) 0 Sat . 195 4491 4356 27 Mar (86) 0 Sat . 19 30 0 10 Mar (69) 4 Wed 71 1325 4357 27 Mar (87) . 2 Mon . 1 42 30 28 Feb (59) . 2 Mon 285 4478 4368 27 Mar (86) . 4 Wed 14 7 30 7 Mar (86) 5 Thur 195 7708 4360 27 Mar (86) . 5 Thur 20 20 0 26 Mar (85) 4 Wed 230 4104 4361 27 Mar (87) . 0 Sat . 2 32 30 14 Mar (74) 1 Sun 106 0938 4362 27 Mar (86) . 3 Tues 7 55 0 18 Mar (77) . 1 Sun . 320 4091 4363 27 Mar (86) . 5 Thur 20 20 0 26 Mar (85) 4 Wed 230 4104 4361 27 Mar (86) . 5 Thur 30 22 Mar (81) . 4 Wed . 16 4168 4364 27 Mar (86) . 5 Thur 30 22 Mar (81) . 4 Wed . 16 4168 4364 27 Mar (86) . 3 Tues 21 10 0 12 Mar (71) . 2 Mon . 230 7321 4365 27 Mar (86) . 3 Tues 21 10 0 12 Mar (71) . 2 Mon . 230 7321 4365 27 Mar (86) . 5 Thur 3 22 30 29 Feb (60) 6 Fr. 106 4155 4366 27 Mar (86) . 6 Fr. 9 35 0 19 Mar (75) . 5 Thur 141 0551 4367 27 Mar (86) . 0 Sat 15 47 30 8 Mar (67) 2 Mon . 16 7384 4368 27 Mar (86) . 0 Sat 15 47 30 8 Mar (67) 2 Mon . 16 7384 4368 27 Mar (86) . 0 Sat 15 47 30 8 Mar (67) 2 Mon . 16 7384 4368 27 Mar (86) . 0 Sat 15 47 30 8 Mar (67) 2 Mon . 16 7384 4368	27 Mar (86) .	3 Tues	11 37 30	19 Mar (78)	2 Mon	35 8196	4348				
27 Mar. (86) . 0 Sat . 6 15 0 16 Mar (75) 3 Tues . 160 4878 4351 27 Mar (86) . 1 Sun . 12 27 30 5 Mar (64) 0 Sat 36 1712 4352 27 Mar (86) . 2 Mon 18 40 0 24 Mar (83) 6 Fri 70 8109 4353 27 Mar (87) . 4 Wed 0 52 30 13 Mar (73) 4 Wed . 285 1262 4354 27 Mar (86) . 5 Thur. 7 5 0 2 Mar (61) 1 Sun . 160 8095 4355 27 Mar (86) . 6 Fri 13 17 30 21 Mar (80) 0 Sat . 195 4491 4356 27 Mar (86) . 0 Sat . 19 30 0 10 Mar (69) 4 Wed 71 1325 4357 27 Mar (87) . 2 Mon . 1 42 30 28 Feb (59) . 2 Mon 285 4478 4358 27 Mar (86) . 3 Tues 7 55 0 18 Mar (77) . 1 Sun . 320 0874 4359 27 Mar (86) . 4 Wed 14 7 30 7 Mar (66) 5 Thur 195 7708 4360 27 Mar (87) . 0 Sat . 2 32 30 14 Mar (74) 1 Sun 106 0938 4362 27 Mar (86) . 1 Sun 8 45 0 4 Mar (63) 6 Fri 320 4091 4363 27 Mar (86) . 2 Mon 14 57 30 22 Mar (81) . 4 Wed . 16 4168 4304 27 Mar (86) . 3 Tues 21 10 0 12 Mar (71) . 2 Mon . 230 7321 4365 27 Mar (86) . 5 Thur 3 22 30 29 Feb (60) 6 Fri 106 4155 4366 27 Mar (86) . 3 Tues 21 10 0 12 Mar (71) . 2 Mon . 230 7321 4365 27 Mar (86) . 0 Sat 16 47 30 8 Mar (67) 2 Mon . 16 7384 4368 27 Mar (86) . 0 Sat 15 47 30 8 Mar (67) 2 Mon . 16 7384 4368 27 Mar (86) . 0 Sat 15 47 30 8 Mar (67) 2 Mon . 16 7384 4368 27 Mar (86) . 0 Sat 15 47 30 8 Mar (67) 2 Mon . 16 7384 4368 27 Mar (86) . 0 Sat 15 47 30 8 Mar (67) 2 Mon . 16 7384 4368	27 Mar (88) .	4 Wed	17 50 0	9 Mar (68)	0 Sat .	250 1649	4349				
27 Mar (86) .	27 Mar (87)	6 Fr.	0 2 30	26 Feb (57)	4 Wed	125 8482	4350				
27 Mar (86) . 2 Mon	27 Mar. (86) .	0 Sat .	6 15 0	16 Mar (75)	3 Tues .	160 4878	4351				
27 Mar (87) . 4 Wed 0 52 30 13 Mar (73) 4 Wed . 285 1202 4354 27 Mar (86) 5 Thur. 7 5 0 2 Mar (61) 1 Sun . 160 8095 4355 27 Mar (86) . 6 Fr1 13 17 30 21 Mar (80) 0 Sat . 195 4491 4356 27 Mar (86) 0 Sat . 19 30 0 10 Mar (69) 4 Wed 71 1325 4357 27 Mar (87) . 2 Mon . 1 42 30 28 Feb (59) . 2 Mon 285 4478 4358 27 Mar (86) 3 Tues 7 55 0 18 Mar (77) . 1 Sun . 320 0874 4359 27 Mar (86) . 4 Wed 14 7 30 7 Mar (66) 5 Thur 195 7708 4360 27 Mar (86) . 5 Thur 20 20 0 26 Mar (85) 4 Wed 230 4104 4361 27 Mar (87) . 0 Sat . 2 32 30 14 Mar (74) 1 Sun 106 0938 4362 27 Mar (86) . 1 Sun 8 45 0 4 Mar (63) 6 Fr1 320 4091 4363 27 Mar (86) . 2 Mon 14 57 30 22 Mar (81) . 4 Wed . 10 4168 4364 27 Mar (87) . 5 Thur 3 22 30 29 Feb (60) 6 Fr1 106 4155 4366 27 Mar (86) . 6 Fr1 9 35 0 19 Mar (78) . 5 Thur 141 0551 4367 27 Mar (86) . 0 Sat 16 47 30 8 Mar (67) 2 Mon . 16 7384 4368 27 Mar (86) . 0 Sat 16 47 30 8 Mar (67) 2 Mon . 16 7384 4368 27 Mar (86) . 0 Sat 16 47 30 8 Mar (67) 2 Mon . 16 7384 4368 27 Mar (86) . 0 Sat 16 47 30 8 Mar (67) 2 Mon . 16 7384 4368 27 Mar (86) . 1 Sun . 22 0 0 27 Mar (86) . 1 Sun . 51 3780 4309	27 Mar (86) .	1 Sun .	12 27 30	5 Mar (64)	0 Sat	36 1712	4352				
27 Mar (86)	27 Mar (86) .	2 Mon	18 40 0	24 Mar (83)	6 Frı	70 8109	4353				
27 Mar (86) 6 Fri	27 Mar (87) -	4 Wed	0 52 30	13 Mar (73)	4 Wed .	285 1262	4354				
27 Mar (86) 0 Sat . 19 30 0 10 Mar (69) 4 Wed 71 1325 4357 27 Mar (87) 2 Mon . 1 42 30 28 Feb (59) . 2 Mon 285 4478 4358 27 Mar (86) 3 Tues 7 55 0 18 Mar (77) . 1 Sun . 320 0874 4359 27 Mar (86) . 4 Wed 14 7 30 7 Mar (66) 5 Thur 195 7708 4360 27 Mar (86) . 5 Thur 20 20 0 26 Mar (85) 4 Wed 230 4104 4361 27 Mar (87) . 0 Sat . 2 32 30 14 Mar (74) 1 Sun 106 0938 4362 27 Mar (86) 1 Sun 8 45 0 4 Mar (63) 6 Fr1 320 4091 4363 27 Mar (86) 2 Mon 14 57 30 22 Mar (81) 4 Wed 16 4168 4364 27 Mar (86) 3 Tues 21 10 0 12 Mar (71) 2 Mon 230 7321 4365 27 Mar (86) 5 Thur 3 22 30 29 Feb (60) 6 Fr1 106 4155 4366 27 Mar (86) 6 Fr1 9 35 0 19 Mar (78) 5 Thur 141 0551 4367 27 Mar (86) 0 Sat 15 47 30 8 Mar (67) 2 Mon 16 7384 4368	27 Mar (86)	5 Thur.	7 5 0	2 Mar (61)	1 Sun .	160 8095	4355				
27 Mar (87) . 2 Mon . 1 42 30 28 Feb (59) . 2 Mon 285 4478 4358 27 Mar (86) . 3 Tues 7 55 0 18 Mar (77) . 1 Sun . 320 0874 4359 27 Mar (86) . 4 Wed 14 7 30 7 Mar (66) 5 Thur 195 7708 4360 27 Mar (86) . 5 Thur 20 20 0 26 Mar (85) 4 Wed 230 4104 4361 27 Mar (87) . 0 Sat . 2 32 30 14 Mar (74) 1 Sun 106 0938 4362 27 Mar (86) . 1 Sun 8 45 0 4 Mar (63) 6 Fri 320 4091 4363 27 Mar (86) . 2 Mon 14 57 30 22 Mar (81) . 4 Wed . 16 4168 4364 27 Mar (86) . 3 Tues 21 10 0 12 Mar (71) . 2 Mon . 230 7321 4365 27 Mar (87) 5 Thur 3 22 30 29 Feb (60) 6 Fri 106 4155 4366 4367 27 Mar (86) . 6 Fri 9 35 0 19 Mar (78) . 5 Thur 141 0551 4367 27 Mar (86) . 0 Sat 15 47 30 8 Mar (67) 2 Mon . 2 Mon . 16 7384 4368 27 Mar (86) . 1 Sun . 22 0 0 27 Mar (86) . 1 Sun . 51 3780 4300	27 Mar (86)	6 Frı	13 17 30	21 Mar (80)	0 Sat .	195 4491	4356				
27 Mar (86) 3 Tues 7 55 0 18 Mar (77) . 1 Sun . 320 0874 4359 27 Mar (86) . 4 Wed 14 7 30 7 Mar (66) 5 Thur 195 7708 4360 27 Mar (86) . 5 Thur 20 20 0 26 Mar (85) 4 Wed 230 4104 4361 27 Mar (87) . 0 Sat . 2 32 30 14 Mar (74) 1 Sun 106 0938 4362 27 Mar (86) 1 Sun 8 45 0 4 Mar (63) 6 Fri 320 4091 4363 27 Mar (86) 2 Mon 14 57 30 22 Mar (81) 4 Wed . 16 4168 4364 27 Mar (86) 3 Tues 21 10 0 12 Mar (71) 2 Mon . 230 7321 4365 27 Mar (87) 5 Thur 3 22 30 29 Feb (60) 6 Fri 106 4155 4366 27 Mar (86) 6 Fri 9 35 0 19 Mar (78) 5 Thur 141 0551 4367 27 Mar (86) 0 Sat 15 47 30 8 Mar (67) 2 Mon 16 7384 4368 27 Mar (86) 1 Sun . 22 0 0 27 Mar (86) 1 Sun . 51 3780 4369 <td>27 Mar (86)</td> <td>0 Sat .</td> <td>19 30 0</td> <td>10 Mar (69)</td> <td>4 Wed</td> <td>71 1325</td> <td>4357</td>	27 Mar (86)	0 Sat .	19 30 0	10 Mar (69)	4 Wed	71 1325	4357				
27 Mar (86) . 4 Wed 14 7 30 7 Mar (66) 5 Thur 195 7708 4360 27 Mar (86) . 5 Thur 20 20 0 26 Mar (85) 4 Wed 230 4104 4361 27 Mar (87) 0 Sat 2 32 30 14 Mar (74) 1 Sun 106 0938 4362 27 Mar (86) 1 Sun 8 45 0 4 Mar (63) 6 Fr1 320 4091 4363 27 Mar (86) 2 Mon 14 57 30 22 Mar (81) 4 Wed 16 4168 4364 27 Mar (86) 3 Tues 21 10 0 12 Mar (71) 2 Mon 230 7321 4365 27 Mar (87) 5 Thur 3 22 30 29 Feb (60) 6 Fr1 106 4155 4366 27 Mar (86) 6 Fr1 9 35 0 19 Mar (78) 5 Thur 141 0551 4367 27 Mar (86) 0 Sat 15 47 30 8 Mar (67) 2 Mon 16 7384 4368 27 Mar (86) 1 Sun 22 0 0 27 Mar (86) 1 Sun 51 3780 4369	27 Mar (87) .	2 Mon .	1 42 30	28 Feb (59) .	2 Mon	285 4478	4358				
27 Mar (86) . 5 Thur 20 20 0 26 Mar (85) 4 Wed 230 4104 4361 27 Mar (87) . 0 Sat . 2 32 30 14 Mar (74) 1 Sun 106 0938 4362 27 Mar (86) . 1 Sun 8 45 0 4 Mar (63) 6 Fr1 320 4091 4363 27 Mar (86) . 2 Mon 14 57 30 22 Mar (81) . 4 Wed . 16 4168 4364 27 Mar (86) . 3 Tues 21 10 0 12 Mar (71) . 2 Mon . 230 7321 4365 27 Mar (87) . 5 Thur 3 22 30 29 Feb (60) 6 Fr1 106 4155 4366 27 Mar (86) . 6 Fr1 9 35 0 19 Mar (78) . 5 Thur 141 0551 4367 27 Mar (86) . 0 Sat 15 47 30 8 Mar (67) 2 Mon . 16 7384 4368 27 Mar (86) . 1 Sun . 22 0 0 27 Mar (86) . 1 Sun . 51 3780 4369	27 Mar (86)	3 Tues	7 55 0	18 Mar (77) .	1 Sun .	320 0874	4359				
27 Mar (87) 0 Sat 2 32 30 14 Mar (74) 1 Sun 106 0938 4362 27 Mar (86) 1 Sun 8 45 0 4 Mar (63) 6 Fri 320 4091 4363 27 Mar (86) 2 Mon 14 57 30 22 Mar (81) 4 Wed 16 4168 4364 27 Mar (86) 3 Tues 21 10 0 12 Mar (71) 2 Mon 230 7321 4365 27 Mar (87) 5 Thur 3 22 30 29 Feb (60) 6 Fri 106 4155 4366 27 Mar (86) 6 Fri 9 35 0 19 Mar (78) 5 Thur 141 0551 4367 27 Mar (86) 0 Sat 15 47 30 8 Mar (67) 2 Mon 16 7384 4368 27 Mar (86) 1 Sun 22 0 0 27 Mar (86) 1 Sun 51 3780 4369	27 Mar (86)	4 Wed	14 7 30	7 Mar (66)	5 Thur	195 7708	4360				
27 Mar (87) . 0 Sat . 2 32 30 14 Mar (74) 1 Sun 106 0938 4362 27 Mar (86) . 1 Sun 8 45 0 4 Mar (63) 6 Fri 320 4091 4363 27 Mar (86) . 2 Mon 14 57 30 22 Mar (81) . 4 Wed . 16 4168 4364 27 Mar (86) . 3 Tues 21 10 0 12 Mar (71) . 2 Mon . 230 7321 4365 27 Mar (87) 5 Thur 3 22 30 29 Feb (60) 6 Fri 106 4155 4366 4367 27 Mar (86) . 6 Fri 9 35 0 19 Mar (78) . 5 Thur 141 0551 4367 27 Mar (86) . 0 Sat 15 47 30 8 Mar (67) 2 Mon . 16 7384 4368 27 Mar (86) . 1 Sun . 22 0 0 27 Mar (86) . 1 Sun . 51 3780 4369	1	5 Thur	20 20 0	26 Mar (85)	4 Wed	230 4104	4361				
27 Mar (86) 1 Sun 8 45 0 4 Mar (63) 6 Fr1 320 4091 4363 27 Mar (86) 2 Mon 14 57 30 22 Mar (81) 4 Wed 16 4168 4364 27 Mar (86) 3 Tues 21 10 0 12 Mar (71) 2 Mon 230 7321 4365 27 Mar (87) 5 Thur 3 22 30 29 Feb (60) 6 Fr1 106 4155 4366 27 Mar (86) 6 Fr1 9 35 0 19 Mar (78) 5 Thur 141 0551 4367 27 Mar (86) 0 Sat 15 47 30 8 Mar (67) 2 Mon 16 7384 4368 27 Mar (86) 1 Sun 22 0 0 27 Mar (86) 1 Sun 51 3780 4309		0 Sat .	2 32 30	14 Mar (74)	1 Sun	106 0938	4362				
27 Mar (86) . 2 Mon 14 57 30 22 Mar (81) . 4 Wed . 16 4168 4364 27 Mar (86) . 3 Tues 21 10 0 12 Mar (71) . 2 Mon . 230 7321 4365 27 Mar. (87) 5 Thur 3 22 30 29 Feb (60) . 6 Fr. 106 4155 4366 27 Mar. (86) . 6 Fr. 9 35 0 19 Mar (78) . 5 Thur 141 0551 4367 27 Mar. (86) . 0 Sat 15 47 30 8 Mar (67) 2 Mon . 16 7384 4368 27 Mar (86) 1 Sun . 22 0 0 27 Mar (86) . 1 Sun . 51 3780 4309	1	1 Sun	8 45 0	4 Mar (63)	6 Fri	320 4091	4363				
27 Mar (86) . 3 Tues 21 10 0 12 Mar (71) . 2 Mon . 230 7321 4365 27 Mar. (87) 5 Thur 3 22 30 29 Feb (60) 6 Fr. 106 4155 4366 27 Mar. (86) 6 Fr. 9 35 0 19 Mar (78) . 5 Thur 141 0551 4367 27 Mar. (86) . 0 Sat 15 47 30 8 Mar (67) 2 Mon . 16 7384 4368 27 Mar (86) 1 Sun . 22 0 0 27 Mar (86) 1 Sun . 51 3780 4369	1	2 Mon	14 57 30	22 Mar (81) .	4 Wed .	16 4168	4364				
27 Mar. (87) 5 Thur 3 22 30 29 Feb (60) 6 Fr. 106 4155 4366 27 Mar. (86) 6 Fr. 9 35 0 19 Mar (78) 5 Thur 141 0551 4367 27 Mar. (86) 0 Sat 15 47 30 8 Mar (67) 2 Mon 16 7384 4368 27 Mar (86) 1 Sun 22 0 0 27 Mar (86) 1 Sun 51 3780 4309	1	3 Tues	21 10 0	12 Mar (71) .	2 Mon .	230 7321	4365				
27 Mar. (86) . 6 Fr 9 35 0 19 Mar (78) . 5 Thur 141 0551 4367 27 Mar. (86) . 0 Sat 15 47 30 8 Mar (67) 2 Mon . 16 7384 4368 27 Mar (86) 1 Sun . 22 0 0 27 Mar (86) . 1 Sun . 51 3780 4369		5 Thur	3 22 30	29 Feb (60)	6 Fn	106 4155	4366				
27 Mar. (86) 0 Sat		6 Fn	9 35 0	19 Mar (78) .	5 Thur	141 0551	4367				
27 Mar (86)	1	0 Sat	15 47 30	8 Mar (67)	2 Mon .	16 7384	4368				
965 6034 4370		1 Sun .	22 0 0	27 Mar (86) .	1 Sun	<i>5</i> 1-3780	4309				
27 Mar (87) 3 Lues . 2 12 00 10 mar. (10)	27 Mar (87)	3 Tues .	4 12 30	16 Mar. (76)	6 Frs	265 6934	4370				

		·	 (CONCURI	RENT YEA	R		
		krama	ar year			Jovian Sam	LATRAPA.	Mean Intercalated (adhika) lunar
Kalı	Saka	Chatradi Vikrams	Mcshadt solar in Bengal	Kollam	AD	Southern system	Northern system	month
1	2	3	3a	4	5	6	7	8a
4371	1192	1327	676	444 45	1269 70	3 Sukla	8 Bhāva	9 Mārgašīra .
4 372	1193	1328	677	445 46	1270 71	4 Pramoda	9 Yuvan .	
4 373	1194	1329	678	446 47	1271-72	5 Prajāpati .	10 Dhātṛi .	
4 374	1195	1330	679	447 48	*1272 73	6 Angıras	11 Istara	5 Srāvana .
4375	1196	1331	680	448 49	1273 74	7 Srīmukha	12 Bahudhānya	
4370	1197	1332	681	449 50	1274-75	8 Bhāva	13 Pramäthin .	1 .
4377	1108	1333	682	450 51	1275-76	9 Yuvan .	14 Vikrama .	2 Varšākha .
4378	1199	1334	683	451 52	*1276 77	10 Dhatn	15 Vrisha .	
4379	1200	1335	684	452 53	1277-78	11 Iśvara	16 Chitrabhānu	10 Pausha .
4380	1201	1336	685	453 54	1278-79	12 Bahudhānya	17 Subhānu .	
4381	1202	1337	686	454 55	1279 80	13 Pramāthın	18 Tāraņa .	
4382	1203	1338	687	455 56	*1280 81	11 Vikrama .	19 Pārthīva .	7 Āśvina .
4383	1204	1	688	456 57	1281 82	15 Vrisha	20 Vyaya	1 1
4384	1205	1	1	457-58	1282 83	16 Chitrabhānu	21 Sarvajit .	1 . 1
4385	1200	1	1	458 59	1283 84	17 Subhānu .	22 Sarvadhānn	4 Āshrīdha
4386	120		""	459 60	*1284 85	18 Tārana ,	23 Virodhin .	1 . 1
4387		1	1	}	}	19 Pārthīva .	24 Vikrita .	12 Phälguna .
4388 4389	1		- } - `	1	1286 87	20 Vyaya	25 Khara .	1]
4390	- 1		1	1	1	21 Sarvajit .	26 Nandana .	
439	1	_	1		}	22 Sarvadhārın .	27 Vijaya	9 Märgasira
439		1		1	1	23 Virðdhin .	28 Jaya	•
439	1	1		1		24 Vikrita .	20 Manmatha	
439	1	15 135	1				30 Durmukha	5 Srāvaņa .
433	1	16 1 3	1	1 50	1		1	
===				<u> </u>	1200 84	27 Vijaya	32 Vilamba	

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1 Arya Siddhanta, mean system.

	ya Siddhänta,	I AI,									
			E	T OF THE	CEM:	IEN	MOC	C			
Kalı year		YEAR (MEAN TH CHAITRA SU						AR	IOLAR YEA	AN S	ME
	a (here=t, the index of the tithi)	Week day	onth,	day and m	isha-	ime an M mkrā	me	lay	Week-da	h,	Day and mont
1	23	20		19		17	-		14		13
4371 4372 4373 4374 4375 4376 4377 4378 4379 4380 4381 4382 4383 4384 4385	141 3767 176 0164 51 6998 266 0150 300 6546 176 3380 52 0213 86 6609 300 9762 9996 9840* 211 2992 86 9826 121 6222 9997 3056* 211 6209 246 2605	3 Tues 2 Mon 6 Fri 4 Wed 3 Tues 0 Sat 4 Wed 3 Tues 1 Sun 6 Fri 4 Wed 1 Sun 0 Sat 4 Wed 2 Mon 1 Sun		Mar (64) Mar (83) Mar. (72) Mar (62) Mar (80) Mar (69) Feb (58) Mar (77) Mar (66) Mar (74) Mar (63) Mar (70) Mar (60) Mar (70)	S 0 30 0 30 0 30 0 30 0 30 0 30 0 30 0	M 25 37 50 2 15 27 40 52 5 17 30 42 55 7 26 32	H 10 16 22 5 11 17 23 5 12 18 0 6 12 19		4 Wed 5 Thur 6 Fri 1 Sun 2 Mon. 3 Tues 4 Wed 6 Fri 0 Sat 1 Sun 3 Tues. 4 Wed 5 Thur. 6 Fri. 1 Sun 2 Mon.		27 Mar. (86) . 27 Mar. (86) . 27 Mar (86) . 27 Mar (87) 27 Mar (86) . 28 Mar (87) . 27 Mar (87) . 27 Mar (86) . 28 Mar (87) . 27 Mar (86) . 28 Mar (87) . 27 Mar (86) .
4387	121 9439	5 Thur.	1	Mar (67)	0		13		3 Tues		27 Mar (86) .
4388	156 5834	4 Wed.		Mar (86)	30	57	19	•	4 Wed.	•	27 Mar. (86) .
4389	32 2669	1 Sun.	-	Mar (75)	0	10	2	•	6 Fn	•	28 Mar. (87) .
4390	246 5821	6 Fn .	•]	Mar (65)	30	22	8	•	0 Sat	•	27 Mar. (87) .
4391	281 2218	5 Thur	1	Mar (83)	0	35	14	•	1 San	•	27 Mar. (86) .
4392	156 9051	2 Mon.	•	Mar (72)	30	47	20	•	2 Mon	•	27 Mar. (86) .
4302	32 5885	6 Fri	. (Mar (61)	0	0	3	•	4 Wed.		28 Mar (87) .
4394	67 2281	5 Thur.	- 4	Mar (80)	30	12	9	•	5 Thur.	•	27 Mar (87).
4395	281 5434	3 Tues .	. 8	Mar (6 9)	0	25	15	•	6 Fri.	•	27 Mar (86) .

^{*} As a mean tithi Chaitra Sukla 1 was expunged. The civil day corresponding to it, se, the first day of the luni solar year was as given in cols. 19, 20.

		- em	year	T			JOVIAN SAM	Vatsara	Mean Intercalated (adhka) lunar
Kalı	Saka	Chatradı Vıkrama	Mcshādı solar	Ko	llam	AD	Southern system	Northern system	month
1	2	3	30		4	5	6	7	8a
4396	121'	7 13	52 70	1 4	69-70	1294 95	28 Jaya	33 Vikārin -	2 Vaišākha
4397	121	- 1	53 7)2 4	70 71	1295-96	29 Manmatha	34 Šārvann	
4398	121	- 1	54 7	03 4	71 72	*1296 97	30 Durmukha	35 Plava	10 Pausha .
4399	122	20 12	355 7	04 4	72-73	1297-98	31 Hēmalamba	36 Subhakrit .	
4400	122	21 13	356 7	05 4	178 74	1298 99	32 Vilamba .	37 Sõbhana	
4401	12	22 1	357 7	06	47,4 75	1299 00	33 Vikārin	38 Krödbın	7 Āśvina
4402	12	23 1	358	107-	475-76	*1300 01	34 Sārvarın	39 Viśvāvasu .	•
4403	12	24 1	359	708	476 77	1301-02	35 Plava	40 Parābhava	
440	12	225	1860	709	477-78	1302 03	36 Subhakrit	41 Plavanga	3 Jyështha .
440	5 19	226	1361	710	478 79	1308 04	37 Sōbhana	42 Kilaka	
440	6 1	227	1362	711	479 80	*1304 05	38 Krödhın	43 Saumya	12 Phálguna
440	7 1	228	1363	712	480 81	1305 06	39 Viśvāvasu	44 Sädhärana	
44(8 1	229	1364	713	481 82	1306 07	40 Parābhava	45 Virodhakrit .	
44	09 1	1330	1365	714	482 83	1307-08	41 Plavanga	46 Paridhāvin	8 Kārttika
44	1	1231.	1366	715	483 84			47 Pramādin	•
44	- 1	1232	1367	716	484 85	1	}	48 Ananda	
	1	1233	1368	717	495 86	1	Ì	. 49 Rākshasa	5 Śrāvaŋa
	113 414	1234	1369	718	486 87	1	ł	50 Anala .	***
	415	1235 1236	1370	719 720	487 8	- [Į.	51 Pingala	. 1 Chaitra .
	416	1237	1372	720	1	}	_	. 52 Kālayukta 53 Siddhārthin	1
	4417	1238	l	722	1	1	1	55 Siddhartum 54 Raudra	10 Pausha
	4418	1239		723	1	1	1	55 Durmati	
	4419	124	0 1375	72	- 1	}	1	56 Dundubhi	
	4420	124	1 1370	72	5 493	1	}	. 57 Rudhirödgär	1

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1 Ārya Siddhānta, mean system.

Arya Siddhanta, mer											
	C	OWNENCE	ient of the								
Mean :	BOLAR YEAR.		MEAY LUMI-SOLAR CIVIL DAY ON WHIC	L LEAR (MFAN DH CHAITRA SU	SUNRISE OF UKLA 1 ENDS).	Kalı year					
Day and month, A.D	Week-day	Time of mean Mish samkränti	Day and month,	Week-day	a (here=t. the index of the tithi)						
13	14	17	19	20	23	1					
27 Mar (86) .	0 Sat	H M. S	27 Fob (58) .	0 Sat	157 2268	4396					
28 Mar. (87)	2 Mon	3 50	18 Mar (77)	6 Fm	191-8664	4397					
27 Mar (87)	3 Tues	10 2 3		3 Tues	07-5498	4308					
27 Mar (86)	4 Wed.	16 15	25 Mar (84) .	2 Mon	102 1894	4399					
27 Mar (86)	5 Thur .	22 27 3	15 Mar (74) .	0 Sat .	316 5047	4400					
28 Mar (87) .	0 Sat	4 40	4 Mar (63) .	4 Wed	192 1881	440I					
27 Mar (87)	1 Bun .	10 52 30	22 Mar (82)	3 Tues .	226-8277	4402					
27 Mar (86) .	2 Mon	17 5	11 Mar (70)	0 Sat	102 5111	4403					
27 Mar (86) .	3 Tues.	23 17 30	1 Mar (60)	5 Thur	316 8264	4404					
28 Mar. (87)	5 Thur .	5 30	19 Mar (78) .	3 Tues	12 8341	4405					
27 Mar. (87) .	6 Fri .	11 42 30	8 Mar. (68)	1 Sun .	227 1494	4406					
27 Mar (86)	0 Bat .	17 55	27 Mar. (86) .	0 Sat	261 7889	4407					
28 Mar (87) .	2 Mon	0 7 8	16 Har (75) .	4 Wed	137 4728	4408					
28 Mar. (87) .	3 Tues .	6 20	5 Mar (64)	1 Sun .	13-1558	4409					
27 Mar (87) .	4 Wed.	12 32 3	23 Mar (93) .	0 Sat .	47 7954	4410					
27 Mar (86)	5 Thur	18 45	13 Mar (72) .	5 Thur.	262 1106	441 i					
28 Mar. (87)	0 Sat	0 57 3	2 Mar (61)	2 Mon	137 7940	4412					
28 Mar (87)	1 Sun .	7 10	21 Mar (80) .	1 Sun .	172 4337	4413					
27 Mar (87) .	2 Mon	13 22 3	9 Mar (69)	5 Thur.	48 1170	4414					
27 Mar (86)	3 Tues .	19 25	27 Feb (58) .	3 Tues .	262 4322	4415					
28 Mar (87)	5 Thur .	1 47 3	18 Mar (77)	2 Mon	297 0719	4416					
28 Mar (87) .	6 Fri	8 0	7 Mar (66) .	6 Fra	172 7553	4417					
27 Mar (87)	0 Sat .	14 12 3	25 Mar (85)	5 Thur .	207 3949	4418					
27 Mar (86).	I Sun	20 25	14 Mar (73) .	2 Mon	83 0782	4419					
28 Mar (87)	3 Tues	2 37 3	4 Mar (63) .	0 Sat .	297-3935	4420					

				CONCU	RRENT YEA	\R		
		cram s	ar year			Jovian bah	ivatsab a .	Mean Intereslated (adhika) lunar
Kalı.	Saka	Chatrādı Vıkrams	Meshadı solar ın Bengal	Kollam	A D.	Gouthern system,	Northern system	month
1	2	3	3a	4	5	6	7	8 a
			1					
4421	1242	1377	726	494 95	1	53 Siddhārthın	58 Raktāksha	•
4422	1243	1378	1	495 90	*1320 21	54 Raudra .	59 Krödhana	
4423	1244	1379	728	496 97	1321-22	55 Durmatı .	60 Kshaya .	3 Jyështha .
4424	1245	1	729	497-98	1322-23	56 Dundubhi	1 Prabhava	
4425	1246	1	730	498 99	1329-24	57 Rudhırödgärin	2 Vibhaya	12 Phälguna
4426	1247		}	499 C	*1324-25	58 Raktāksha	3 Sukla .	•
4427	1249	138	3 732	500 0	1325 26	59 Krödhana	4 Pramēda .	•
4428	124		_	501 0	1326 27	60 Kshaya .	5 Prajāpati	8 Kärttika
4429	125		1	502 0	3 1327-28	1 Prabhava .	6 Angiras .	•••
4430	125	-	1	1	4 *1328 29	2 Vibhava .	7 Śrīmukha	
4431	128		1		5 1329-30	3 Sukla	8 Bhāva .	5 Srāvana
4432	1	- }		}	6 1330 31	4 Pramoda .	9 Yuvan† .	••
4433		_	_ "		7 1331-32	5 Prajāpatı .	11 Isvara .	,
4434	` {		~ {		1002.00	6 Angiras .	12 Bahudhānya	1 Chartra
443(- 1		``\	10 508		7 Srīmukha .	13 Pramāthin	
443	1		1	41 509	1002 00	8 Bhāva	14 Vikrama	10 Pausha
443 443	ı	1		42 510			15 Vrisha	
443	- 1	}	}	43 511	1		16 Chitrabhānu	
	- 1	1	ł	44 512			17 Subhānu .	6 Bhadrapada
	442 2000					18 Tāraņa		
				746 514			19 Pārthya	
	- 1			747 518			20 Vyaya	3 Jyeshtha .
	- }			- 1	17 1341 4		21 Sarvajit .	
	1				-18 1342 4		22 Sarvadhāmn .	11 Māgha .
-				100 51	1343-4	4 17 Subhānu .	23 Virōdhin .	

^{† 10} Dhātri was suppressed in the north by the mean system, but 11 Iśvara by the true system. The year A.D. 1331-32 was by the latter system called "10 Dhātri" in the north.

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1 Ārya Siddhānta, mean system.

	CO	MMENCEME	NT OF THE					
Mean s	OLAR YEAR		Mean Luni-solar civil day on whic	Mean Luni-solar year (mean sunrist of civil day on which Chaitra Surla 1 ends)				
Day and month, A.D	Week day	Time of mean Mesha- samkränti	Day and month, A D	Weck day	a (here=t, the index of the tithi)			
13	14	17	19	20	23	1		
		H M S						
28 Mar (87)	4 Wed	8 50 0	23 Mar (82)	6 Fr1.	332 0331	4421		
27 Mar (87) .	5 Thur	15 2 30	11 Mar (71)	3 Tues	207-7165	4422		
27 Mar. (86)	6 Fn	21 15 0	28 Feb (59)	0 Sat .	83 3999	4423		
28 Mar (87)	1 Sun	3 27 30	19 Mar (78)	6 Frı	118 0395	4424		
28 Mar (87)	2 Mon.	9 40 0	9 Mar (68)	4 Wed	332-3547	4425		
27 Mar (87)	3 Tues	15 52 30	26 Mar (86) .	2 Mon	28 3624	4426		
27 Mar (86)	4 Wed	22 5 0	16 Mar (75) .	0 Sat	242 6778	4427		
28 Mar (87)	6 Fn	4 17 30	5 Mar (64)	4 Wed	118-3612	4428		
28 Mar (87)	0 Sat	10 30 0	24 Mar (83) .	3 Tues	153 0008	4429		
27 Mar (87) .	1 Sun .	16 42 30	12 Mar (72) .	0 Sat	28 7841	4430		
27 Mar (86) .	2 Mon	22 55 0	2 Mar (61)	5 Thur	242 9995	4431		
28 Mar (87) .	4 Wed	5 7 30	21 Mar (80) .	4 Wed	277 6391	4432		
28 Mar (87)	5 Thur	11 20 0	10 Mar (69) .	1 Sun	153 3224	4433		
27 Mar (87)	6 Fm .	17 32 30	27 Feb (58) .	5 Thur	29 0058	4434		
27 Mar (86)	0 Sat	23 45 0	17 Mar (76) .	4 Wed	63-6455	4435		
28 Mar (87)	2 Mon	5 57 30	7 Mar (66)	2 Mon .	277 9607	4436		
28 Mar (87)	3 Tues .	12 10 0	25 Mar. (85)	1 Sun .	312 6003	4437		
27 Mar (87)	4 Wed .	18 22 30	14 Mar. (74)	5 Thur	188 2837	4438		
28 Mar (87)	6 Fri	0 35 0	3 Mar (62)	2 Mon .	63 9689	4439		
28 Mar (87)	0 Sat	6 47 30	22 Mar (81)	1 Sun	98 6067	4440		
28 Mar (87) .	1 Sun	13 0 0	12 Mar (71) .	6 Fm .	312 9231	4441		
27 Mar (87) .	2 Mon .	19 12 30	29 Feb (60) .	3 Tues .	188 6054	4442		
28 Mar (87)	4 Wed	1 25 0	19 Mar (78)	2 Mon	223-2350	4443		
28 Mar (87) .	5 Thur	7 37 30	8 Mar. (67)	6 Fri	98 9284	4444		
28 Mar (87) .	6 Frı	13 50 0	27 Mar. (86) .	5 Thur .	133 5679	4445		

					CONCU	RRE	NT YEA	R		
			ama	rvear				Joviat Sam	VATSARA.	Mesn Interculated (ndhika) lunar
Kalı	Sak	8	Chartradı Vıkrama	Mēshādī solar ın Bengal	Koliam	A	A D	Southern system	Northern system	month.
ı	2	_	3	3a	4		5	6	7	8a
4446	120	37	1402	751	519 2) *1	344 45	18 Tārana •	24 Vihrita .	
4447	120	88	1403	752	520 2	ı [ː	1345 46	19 Pārthīva	25 Khara .	8 Kārttika
4448	12	69	1404	753	521 2	2	1346 47	20 Vyaya	26 Nandana	
4449	12	70	1405	754	522 2	3	1347 48	21 Sarvajit	27 Vijaya	
4450	12	71	1406	755	523	4 *	1348 49	22 Sarvadhārin	28 Jaya	4 Āshādha
4451	12	272	1407	756	524	5	1349 50	23 Virodhin .	29 Manmatha	
4452	l	273	1408	75'	525	26	1350 51	24 Vikrita	30 Durmukha	,
4453	1	274	1409	75	8 526-	27	1351-52	25 Khara	31 Hümalamba	1 Chaitra
4454	. 1	275	1410	75	9 527	28 '	1352 53	26 Nandana	32 Vilamba	
445	5 1	1276	141	1 76	528	29	1353 54	27 Vijaya .	33 Vikārin	9 Mārgasira
445	6 :	1277	141	2 70	51 529	30	1354 55	28 Jaya	34 Sārvarın	1
445	7	1278	141	.3 7	62 530	31	1355 56	29 Manmatha	35 Plava	
445	8	1279	141	14 7	63 531	32	*1356 57	30 Durmukha	36 Subhakrit	6 Bhādrapada
448	59	1280	14:	15 7	64 539	33	1357 58	31 Hēmalamba	37 Š5bhana	
44	60	1281	14	16 7	65 53	34	1358 59		. 38 Krödhin	O Yuzukaka
	61	128	- 1	- 1	1	35	1359 60	ł	. 39 Višvāvasu	3 Jyështha
	62	128	- 1	- }	1	5 36	*1360 61	1	40 Parābhava	11 Mägha
	163	128	- 1	- 1	1	6 37	1361 62	į.	41 Plavanga 42 Kilaka	ii magna
	464 465	128	- 1	- 1	}	7 38	1362 6	i	43 Saumya	1
	1466	}	1286 1421 770 538 39 1287 1422 771 539 40		1363 6 *1364 6	1	44 Sādhārana	8 Kärttika		
	3467	Ì	1	423	- 1	10 41	1365 6	}	45 Virôdhakrit	
	4 168	1	- 1	1424	1	41 42	1366 6	(46 Paridhävin	
	4469	1	1	1425	1	42 43	1367	}	. 47 Pramädin	. 4 Áshādha
	4470	1	291	1426	1	43 44	1	1	. 48 Ānanda	.]

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1 Ārva Siddhānta, mean system.

	co	MME	enci	EVIE	NT OF THE			
Mean	SOLAR YEAR				Mean LUNI SOLAR CIVIL DAY ON WHI			Kali year
Day and month, A D	Weck day	me	ime in M nkrā	čsha-	Day and month, A D	Week day	a (here=t, the index of the titli)	
13	14		17		19	20	23	1
		H		8				'
27 Mar (87)	0 Sat .	20	2	30	15 Mar (75)	2 Mon	9 2513	4446
28 Mar (87)	2 Mon .	2	15	0	5 Mar (64)	0 Sat	223 5666	4447
28 Mar (87)	3 Tues .	8	27	30	24 Mar (83)	6 Fri	258 2062	4448
28 Mar (87)	4 Wed	14	40	O	13 Mar (72)	3 Tues	133 8897	4449
27 Mar (87)	5 Thur	20	52	30	1 Mar (61)	0 Sat	9 5730	4450
28 Mar (87) .	0 Sat	3	5	0	20 Mar (79) .	6 Fri	44 2126	4451
28 Mar (87)	1 Sun	9	17	30	10 Mar (69)	4 Wed	258 5279	4452
28 Mar (87)	2 Mon	15	30	0	27 Feb (58)	1 Sun	134 2112	4453
27 Mar (87)	3 Tues	21	42	30	17 Mar (77) .	0 Sat	168 8509	4454
28 Mar (87)	5 Thur	3	55	0	6 Nar (C5)	4 Wed	44 5342	4455
28 Mar (87)	6 Fn	10	7	30	25 Mar (84)	3 Tues	79 1738	4456
28 Mar (87)	0 Sat	16	20	0	15 Mar (74)	1 Sun	293 4891	4457
27 Mar (87)	1 Sun	22	32	30	3 Mar (63)	5 Thur	169 1725	4458
28 Mar (87)	3 Tues	4	45	0	22 Mar (81)	4 Wed	203 8121	4459
28 Mar (87)	4 Wed	10	57	30	11 Mar (70)	1 Sun	79 4955	4460
28 Mar (87)	5 Thur	17	10	0	1 Mar (60)	6 Frı	293 8108	4461
27 Mar (87)	6 Fri	23	22	30	19 Mar (79)	5 Thur	328 4501	4462
28 Mar (87) .	1 Sun	5	35	0	8 Mar (67)	2 Mon	204 1338	4463
28 Mar (87)	2 Mon	11	47	30	27 Mar (86) .	1 Sun	238 7731	4464
28 Mar (87) .	3 Tues	18	0	0	16 Mar (75) .	5 Thur	114 4568	4465
28 Mar (88) .	5 Thur .	0	12	30	5 Mar (65)	3 Tues	328 7721	4466
28 Mar (87)	6 Fri	6	25	0	23 Mar (82)	1 Sun	24 7798	4467
28 Mar (87)	0 Sat	12	37	30	13 Mar (72)	6 Frı	239 0951	4468
28 Mar (87)	1 Sun	18	50	0	2 Mar (61)	3 Tues	114 7785	4469
28 Mar (88)	3 Tues	1	2	30	20 Mar (80)	2 Mon .	148 1181	4170

	CONCURRENT YEAR										
Kalı	Saka	Chaitrādi Vikrama	Mēshīdi solar year in Bengal	Kollam	ΑD	Joyian sa Southern system	Northern system	Mean Intercalated (adhika) lunar month			
ı	2	3	3a	4	5	6	7				
1 4471 4472 4473 4474 4175 4476 4477 4478 4479 4480 4481 4482 4483 4484 4485 4486 4487 4488 4489 4490 4491	2 1292 1293 1294 1295 1296 1297 1298 1299 1300 1301 1302 1303 1304 1305 1306 1307 1308 1309 1310 1311	3 1427 1428 1429 1430 1431 1432 1433 1434 1435 1436 1437 1438 1439 1440 1441 1442 1443 1444 1445 1446 1447	776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795	544 45 545-40 546 47 547 48 548 49 549 50 550 51 551 52 552 53 553 54 554 55 555 56 556 57 557 58 558 59 560 61 561 62 562 63 563 64	1369-70 1370 71 1371-72 *1372 73 1373 74 1374 75 1375 76 *1376 77 1377 78 1378 79 1379 80 *1380 81 1381 82 1382-83 1383 84 *1384 85 1385 86 1386 87 1387 88 *1388 89	43 Saumya 44 Sādhārana 45 Virōdhakrit 46 Paridhāvin 47 Pramādin 48 Ānanda 49 Rākshasa 50 Ānala 51 Pingala 52 Kālayukta 53 Siddhārthin 54 Raudra 55 Durmati 56 Dundubhi 57 Rudkirōdgārin 58 Raktāksha 59 Krōdhana 60 Kshaya 1 Prabhava 2 Vibhava	49 Rākshasa 50 Anala . 51 Pingala 52 Kālayukta . 53 Siddhārthin 54 Raudra . 55 Durmati . 56 Dundubhi 57 Rudhirōdgārin 58 Raktāksha 59 Krōdhana 60 Kshaya 1 Prabhava 2 Vibhava 3 Sukla . 4 Pramōda . 5 Prajāpati . 6 Angiras . 7 Srīmukha . 8 Bhāva	8a 1 Chaitra 9 Mārgaśira . 6 Bhādrapada 2 Vaišakha 11 Māgha 7 Āśvina 4 Āshādha 12 Phālgana .			
4492	1313	1448	1	1	1399 90	3 Šukla 4 Pramēda	9 Yuvan	•			
449J 4494	1314		""	1	1391 92	5 Prajāpatı	11 Isvara	9 Mārgašīra			
4495	1	1	100	1	1	6 Augiras 7 Srīmukha	12 Bahudhānya 13 Pramāthin .	···			

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1 Ārya Siddhānta, mean system.

. 1 Arya Siddhanta, me								
	C	(IIIO	IEN	CEM	ENT OF THE			
Mean	SOLAR YEAR.				Mean luni solah civil day on whi	Kalı year		
Day and month, A.D.	Day and month, Week-day		Time of mean Mësha- samkränti		Day and month, A D	Week day	a (here=t, the index of the tithi)	
13	14		17		19	20	23	1
		H	М	s			· -/	
28 Mar (87) .	4 Wed	7	15	0	9 Mar (68)	6 Fri	25 1015	4471
28 Mar (87)	5 Thur.	13	27	30	27 Feb (58)	4 Wed	239 4167	4472
28 Mar (87) .	6 Frı	19	40	0	18 Mar (77)	3 Tues	274 0564	4473
28 Mar (88)	I Sun .	1	52	30	6 Mar (66)	0 Sat .	149 7397	4474
28 Mar (87) .	2 Mon	8	5	0	25 Mar (84)	6 Fri	184 3794	4475
28 Mar. (87)	3 Tues	14	17	30	14 Mar (73)	3 Tues	60 0627	4476
28 Mar (87)	4 Wed	20	30	0	4 Mar (β3)	1 Sun	274 3779	4477
28 Mar (88) .	6 Fri	2	42	30	22 Mar (82)	0 Sat	309 0176	4478
28 Mar (87)	0 Sat	8	55	0	11 Mar (70)	4 Wed	184 7009	4479
28 Mar (87)	1 Sun	15	7	30	28 Feb (59)	1 Sun	60 3844	4480
28 Mar (87)	2 Mon .	21	20	0	19 Mar (78)	0 Sat	95 0230	4481
28 Mar (88) .	4 Wed .	3	32	30	8 Mar (68)	5 Thur	309 3392	4482
28 Mar (87)	5 Thur	9	45	0	26 Mar (85)	3 Tues	5 3469	4483
28 Mar (87)	6 Frı	15	57	30	16 Mar (75)	1 Sun.	219 6622	4484
28 Mar (87)	0 Sat	22	10	0	5 Mar (64)	5 Thur	95 3456	4485
28 Mar (88) .	2 Mon	4	22	30	23 Mar (83)	4 Wed	129 9852	4486
28 Mar (87)	3 Tues .	10	35	0	12 Mar (71)	1 Sun	5 6686	1487
28 Mar (87)	4 Wed	16	47	30	2 Mar (61)	6 Frı	219 9839	4488
28 Mar (87) .	5 Thur	23	0	0	21 Mar (80)	5 Thur	254 6235	4489
28 Mar (88) .	0 Sat	5	12	30	9 Mar (69)	2 Mon	130 3069	4490
28 Mar (87)	1 Sun	11	25	0	28 Mar (87)	1 Sun	164 9464	4491
28 Mar (87)	2 Mon	17	37	30	17 Mar (76)	5 Thur	40 6298	4492
28 Mar. (87)	3 Tues	23	50	0	7 Mar (66)	3 Tues	254 9151	4493
28 Mar (88)	5 Thur	6	2	30	25 Mar (85)	2 Mon	289 5848	4494
28 Mar (87)	6 Frı	12	15	0	14 Mar (73)	6 Fri	165 2581	4495
	·			*				

	CONCURRENT YEAR										
rama.			1 1			Joyian 44	MV \TSARA	Menn Intercalated (adluka) lunar			
Kalı.	Chaitrādi Vikrama. Mēslivdi solar yea in Bengal		ΑD	Southern system	Northern system	month					
1	2	3	3α	4	5	6	7	82			
4496 4497 4498 4499 4500 4501 4502	1317 1318 1319 1320 1321 1322 1323	1452 1453 1454 1455 1456 1457 1458	801 802 803 804 805 806 807	569-70 570 71 571-72 572 73 573 74 571 75 575 76	1394 95 1395 96 *1396 97 1397 98 1398 99 1399 00 *1400 01	8 Bhāva 9 Yuvan 10 Dhātri 11 Isvara 12 Bahudhanya 13 Pramīthin 14 Vikrama	14 Vikrama 15 Vrisha 16 Chitrabhanu 17 Subbānu 18 Tārana 19 Pārthiya	6 Bhādrapada 2 Varsākha 11 Māgha .			

LXXVI-C neld

1 Ārya Siddhānta, mean system

	COMMENCEMENT OF THE									
Mean solar lear Mean solar lear Civil dal on which Chaitra Surla lends)										
Day and month,	Week day	Time of mern Meshn samkränti	Day and month,	Week day	u (hero=t, the index of the tithi)					
13	14	17	19	20	23	1				
28 Mar (87) 29 Mar (88) 28 Mar (88) 28 Mar (87) 28 Mar (87) 29 Mar (88) .	0 Sat 2 Mon 3 Tues 4 Wed 5 Thur 0 Sat 1 Sun	H M S 18 27 30 0 40 0 6 52 30 13 5 0 19 17 30 1 30 0 7 42 30	22 Mar (81) 11 Mar (71) 28 Fob (59) 19 Mar (78)	3 Tues 2 Mon 0 Sat 4 Wed 3 Tues 0 Sat 6 Fri	40 9515 75 5912 289 9064 165 5898 200 2294 75 9127 110 5523	4496 4497 4498 4499 4500 4501				

TABLE LXXVII

DURATION AND COLLECTIVE DURATION OF MEAN SOLAR MONTHS ACCORDING TO THE FIRST ARYA SIDDHANTA, WITH INCREASE OF a AT DACH SAMAPANTI

1	Mean lum solar month, ending after the second of the two solar samkrāntis connected with it	At the mean solar samkrāntis,	Collective duration in time and collective increase of a from mean Misha syml ranti to the several samkrantis, Day Week- H M S a						
Chaitra Mēsha-samk 0 0 0 0 0 0 0 0 0	1	2		<u> </u>				4	
1 Chartra (of fol-	2 Varšākha	Mēsha-samk. Vņshabha-samk Mithuna-samk. Karka-samk Simha-samk. Kanyā samk Tulā-samk Vrišchika-samk Dhanus samk. Makara-samk Kumbha-samk	30 60 91 121 152 182 213 243 273	(2) (4) (0) (2) (5) (0) (3) (5) (0)	10 21 7 18 4 15 1 12 22	31 2 33 4 35 6 37 8	2½ 5 7½ 10 12½ 15 17½ 20 22½	307 3526 614 7052 922 0579 1229 4105 1536 7631 1844 1157 2151 4684 2458 8210 2766 1736	each mean solar month is 30d 10h 31m 21s; and during this period in addition to one whole revolution, the mean moon increases her distance from mean sun, in measurement by 10,000ths of circle by, (or in other words the monthly increase of a =)
		Mēsha samk	1	1	1			1	

^{*} More fully 3688 231484714.

TABLE LXXVIII

Value of a (= t) at beginning of cfnturies of the Kaliyuga, according to the F_1 251 Arya Siddhanta mean system

[The value of a to be added for beginning of odd years of centuries is given in Table LXXIII above W. D = Week-day]

Century A Y	W -D	a (= t)
36 37 38 30 40 41 42 43 44 45 46 47 48	110000000000000000000000000000000000000	7715 3525 0583 1816 5112 3787 3980 2078 2848 0369 1715 8659 583 6950 9451 5240 8319 3531 7187 1822 5716 3793 4584 2084 3452 0375

The duration of each mean solar month is $30d-10h-31m-2\frac{1}{2}s$, and during this period in addition to one whole revolution, the mean moon increases her distance from mean sun, in measurement by 10,000ths of circle by, (or in other words the monthly increase of a=)307352623726

NB—These values of a agree generally with Professor Jacobi's values above (Vol XI, p 164) The apparent differences are due to two causes. (1) The present estimate of the sum of the greatest equations of moon and sun is about 0.4 greater than that of Professor Jacobi (11) The values here stated for the beginnings of centuries 38 to 12 are for mean sunrise on Saturdays, while his are for mean sunrise on the following Sundays

TABLE LXXIX.

Mean sunrise values of α (distance of mean moon from mean sun), in 10,000ths of circle, for a month previous to the day of mean Mesha-samkranti.

Interval of days from mean Misha- samkränti day	W -D	a (mean sunrise value)	Interval of days from mean Misha- samkränti day.	₩-D	a (mean sunrise value).
31 30 29 28 27 20 25 24 23 22 21 20 19 18 17 16	4560123456012345	9502 4119 9841 0438 179 6756 518 3075 856 9394 1195 5713 1534 2032 1872 8350 2211 4669 2550 0988 2888 7306 3227 3625 3565 9944 3904 6263 4243 2581 4581 8900	15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0	6012345601234560	4920 5219 5259 1538 5597 7856 5936 4175 6275 0494 6613 6813 6952 3131 7290 9450 7629 5769 7968 2088 8306 8406 8045 4725 8084 1044 9322 7263 9661 3681 0

N B -The use of this Table is explained in example 1.

TABLE LXXX

THE SUN'S MEAN LONGITUDE DIRING THE HINDU SOLAR YEAR, IN 10,000THS OF CIRCLE, ACCOPDING TO THE FIRST APYA SIDDHANTA, AT PERIODS OF 24 HOURS EACH, MEASURED FROM THE MOMENT OF MEAN MESHA-SAMKRANII

The same in degrees, etc., can be calculated by Table XLIV, Vol XIV above

2+ hour period	Sun's mean Jongitude	24-hour period	Sun's mean longitude	24 hour period	Sun's mean longitude	24 Lour priod	Sun's mean longitude
1	2	1	2	1	2	1	2
At moment of mean	}	42 43 44	1149 8700 1177 2479 1204 7277	87 88 89	2381 8736 2400 2514 2436 6293	127 128	3476 9879 3504 3657
euml rus 's 1 2 3	27 3779 54 7557 52 1336 109 5114	45 46 47 45	1232 0036 1259 3814 1286 7593 1314 1371	90 91 At moment	2464 0071 2491 3850	129 130 131 132 133	3531 7436 3559 1214 3586 4993 3613 8772 3641 2550
ร์ บ 7 8	136 5593 164 2671 191 6450 219 0229	50 51 52 53	1341 5150 1365 8920 1396 2707 1423 6486	of mean Larla samkränti 92	2500 0 2518 7629	134 135 136 137	3668 6329 3696 0107 3723 3886 3750 7664
9 10 11 12	246 4007 273 7786 301 1564 325 5313	54 55 56 57	1451 0264 1478 4043 1505 7821 1533 1600 1560 5379	93 94 95 96	2546 1407 2573 5186 2600 8964 2628 2743	138 139 140 141	3778 1443 3805 5222 3832 9000 3860 2779
13 14 15 16	355 9121 383 2900 410 6679 435 0457	55 57 60	1587 9157 1615 2936 1642 6714	97 98 99 100 101	2655 6521 2683 0300 2710 4079 2737 7857	142 143 144 145	3887 6557 3915 0336 3942 4114 3969 7893
17 18 19 20 21	165 4236 492 5014 520 1793 547 5571	At moment of mean Metheina samlvänti	1666 6	101 102 103 104 105	2765 1636 2792 5414 2819 9193 2847 2971	146 147 148 149	3937 1572 4024 5450 4051 9229 4079 3007
21 22 24 25	574 9350 602 3129 629 6907 657 0556	61 62 63 64	1670 0493 1697 4271 1724 8050 1752 1829	106 107 108 109	2874 6750 2902 0529 2929 4307 2956 8086	150 151 152	4106 6786 4134 0564 4161 4343
26 27 29 29	711 8213 739 2021 766 5800	65 66 67 68	1779 5607 1806 9386 1834 3164 1861 6943	110 111 112 113	2984 1864 3011 5643 3038 9421 3066 3200	At moment of mcan Kanyā samkrānti	}4166 6
At proment	821 3357	69 70 71 72 73	1889 0721 1916 4500 1913 8279 1971 2057	114 115 116 117	3093 6979 3121 0757 3148 4536 3175 8314 3203 2093	153 154 155 156	4188 8122 4216 1900 4243 5679 4270 9457
i -islabla sunkrait 31	\$45.7136 876.0914	74 74 75 76	2953 3393 2080 7171	118 119 120 121	3230 5872 3257 9650 3285-3429 3312 7207	157 158 159 160	4298 3236 4323 7014 4353 0793 4380-4572
3; 3; 7;	903 4693 939 5471 958 2250 955 6029	78 79 80 81	2162 8507 2190 2286	At moment of mean Simha	3333 3	161 162 163 164	4407 8350 4435 2129 4462 5907 4489 9686
3: 3: 4: 1;	10129307 10403556 10477364 11051143	52 53 84 85	2244 9843 2272 3621 2279 7400 2327 1179	samkrāntī 122 123 124	3340 0986 3367 4764 3394 8543	165 166 167 168 169	4517 3464 4544 7243 4572 1022 4599 4800
de statement of desired		96	2354 4957	125 126	3422 2322 3449 6100	170 171	4626 8579 4654 2357 4681 6136

TABLE LXXX-Contd

				<u>`</u>			
24 hour period	Sun's mean longitude	24 hour period	Sun's mean longitude	24 hour period	Sun's mean longitude	24 hour period	Sun's mean longitude
1	2	1	2	1	2	1	2
-						1	
172 173	1708 9914 1736 3693	220 221	6023 1286 6050 5064	272 273		320 321	8760 9143 8788 2922
174	17037172	222	6077 8943	1 .	1	322	8815 6700
175	1701 1250	223	6105 2622	At moment	3 A	323	5843 0479
176	1518 5029	224	6132 6400	of mean	7500 0	324	8870 4257
177	4515 9507	225	6160 0179	Makara samkrānii	1)	325	8897 80 36
175	1573 2596	226	6187 3957	274	7501 5329	326	8925 1814
179	4900 6364	227	6214 7736	275	7528 9107	327	3952 5593
170	1928 0143	228	6212 1511	276	7556 2850	328	8979 9372
181	1055 3922	229	0269 0393	277	7583 6664	329	9007 3150
192	49527700	230	6296 9072	278	7611 0113	330 331	9031 6929 9062 0707
At moment)	231 232	6324 2850 6351 6629	279	7638 4222	332	9089 4486
of mean	. 5000 O	233	6379 0407	280	7665 8000	373	9116 8264
Tulā - im-	(10000	234	0406 4166	291	7693 1779	334	9144 2043
krānti	17	235	6433 7964	28.2	7720 5557	At moment	
183	5010 1479	236	6161 1743	283 281	7717 9336	of mean)
184 185	5037 5257 5064 9036	237	6188 5522	285 285	7802 6893	Mina-sum-	<i>₹9160 6</i>
186	5092 2814	238	6515 9300	286	7830 0672	Irāntı)
187	5119 6593	239	654 3 3079	287	7857 4450	335	9171 5822
188	5117 0372	240	6570 6857 6598 0636	288	7884 8229	336	9198 9600
199	5174 4150	241 242	6625 4411	259	7912 2007	337	9226 3379
300	5201 7929	243	6652 8193	290	7939 5786	338	9253 7157
191	5229 1707	270	00020100	291	7906 7564	339	9281 0936 9308 4715
192	5256 5486	11 moment)	202 293	7994 3343 8021 7122	340 341	9335 8493
193 194	5283 9261 5311 3013	of mean	- 0000 è	293 294	8049 0900	342	9363 2272
105	5338 6822	Dhanus	(00000	205	8076 1679	343	9300 6050
196	5366 0600	samirānii	2000 1070	296	8103 8457	344	9417 9829
197	5393 4379	244 245	6680 1972 6707 5750	297	8131 2236	345	9445 3607
198	5120 8157	246	6734 9529	298	8158 G014	346	9472 7386
199	5118 1936	247	6762 3307	290	8185 9793	347	9500 1165
200	5475 5714	248	6789 7086	300	8213 3572	348 349	9527 494 3 9554 8722
201 202	5502 9493 5530 3272	249	6817 0864	301 302	8240 7350 8268 1129	350	9582 2500
202 203	5557 7050	250	6841 4643	303	8295 4907	351	9609 6279
201	5585 0829	251	6871 8422	301	5322 8686	352	9637 0057
205	5012 4607	252) 253	6899 2200 6926 5979	At moment		353	9664 3836
206	5639 8386	254	6953 9757	of mean	/	354	9691 7616
207	5667 2164	255	6981 3536	Kumbha	S333 3	355	9719 1393
208	5691 5913	256	7008 7314	samkrāntı)	350 357	9746 5172 9773 8950
209 210	5721 9722 5749 3500	257	7036 1093	305	8350 2464	358	9801 2729
211	5776 7279	258	7063 4872	306	8377 6243	359	9826 6507
212	5804 1057	259	7090 8650	307	8405 0022 8432 3800	360	9856 0°88
213	5831 4836	260 261	7118 2429 7145 6207	308 (309 (8459 7579	361	9883 1065
At moment		262	7172 9986	310	8487 1357	362	9910 7843
of mean	7	203	7200 3764	311	8514 5136	303	938 1622
Vrischika	6833 3	264	7227 7543	312	8511 8914	364 365	9992 9179
samkränti		267	7255 1322	313	8569 2693		
214	5858 8614	266	7282 5100	314	8596 6472	At moment	
215	5886 2393	267	7309 8879	315	8624 0250 8651 4020	of mean Misha-	40 000 0
216 217	5913 6172 59±0 9950	268 209	7337 2657 7361 6436	316 317	8678 7807	samirānti (- 10,009 9
218	5048 3720	270 i	7392 0211	318	87(6 1536	oj [-11 w	
210	5005 7507	271	7419 3993	319	8723 5384	Sygur 1	
		1	4	}	1	1	
	,		,				

TABLE LXXXI

Sun's mean longitude Increase in fractions of day according to the First Arya Siddhania

(For the same in degrees, ctc, see above, Vol XIV, Table XLIV)

INCREA	SE PFR HOUR		Increase pi	ER MIN	LTE		Increase pe	n sec	0811
No	In 10,000ths of circle	No	In 10,000ths of circle	No	In 10,000ths of circle	No	In 10,000ths of circle	No	In 10 000ths of circle
1	1 1407	1	, 0.0100						
2	2 2815	2	0 0190	31	0 5894	1	0 0003	31	0 0098
3	3 4222		0 0380	32	0 6084	2	0 0006	32	0 0101
4	4 5630	3	0 0570	33	0 6274	3	0 0010	33	0 0105
5		4	0 0760	34	0 0 164	4	0 0013	34	0 0108
B	5 7037	5	0 0951	35	0 6654	5	0 0016	35	0 0111
7	6 8445	6	0 1141	36	0 6844	6	0 0019	36	0 0114
	7 9852	7	0 1331	37	0 7035	7	0 0022	37	0 0117
8	9 1260	8	0 1521	38	0 7225	8	0 0025	38	0 0120
9	10 2667	9	0 1711	39	0 7415	9	0 0029	39	0 0124
10	11 4074	10	0 1901	40	0 7605	10	0 0032	40	0 0127
11	12 5482	11	0 2071	41	0 7795	11	0 0035	41	
12	13 6889	12	0 2281	42	0 7985	12	0 0038	42	0 0130
13	14 8297	13	0 2472	43	0 8175	13	0 0041	43	0 0133
14	15 9704	14	0 2662	44	0 8365	14	0 0044		0 0136
15	17 1112	15	0 2852	45	0 8536	15	0 0048	44	0 0139
16	18 2519	16	0 3042	46	0 8746	16	0 0051	45	0 0143
17	19 3926	17	0 3232	47	0 8936	17	0 0054	46	0 0146
18	20 5334	18	0 3422	48	0 9126	18	1	47	0 0149
19	21 6741	19	0 3612	49	0 9316	19	0 0057	48	0 0152
20	22 8149	20	0 3802	50	0 9506	20	0 0060	49	0 0155
21	23 9556	21	0 3993	51	0 9696		0 0063	50	0 0158
22	25 0964	22	0 4183	52	0 9886	21	0 0067	51	0 0162
23	26 2371	23	0 4373	53	1 0077	22	0 0070	52	0 0165
		24	0 4563	54	1 0267	23	0 0073	53	0 0168
		25	0 4753	55	1 0457	24	0 0076	54	0 0171
		26	0 4943	56	1 0437	25	0 0079	55	0 0174
		27	0 5133	57	1 0837	26	0 0082	56	0 0177
		28	0 5323	58	1 1027	27	0 0086	57	0 0181
		29	0 5514	59	1 1027	28	0 0089	58	0 0184
		30	0 5704		1 1217	29	0 0092	59	0 0187
		<u> </u>				30	0 0095		

No. 7-TWO NEW GRANTS OF DHRUVASENA [I] FROM PALITANA.

By V S SURTHANKAR, PH D

I edit here two new Valabhi copper-plate grants (one complete and one incomplete) which were presented, in 1918, to the Trustees of the Prince of Wales Museum, Bombay, by the Bhāvnagar Darbar, which is ever ready to further the cause of epigraphic research by placing ungrudgingly the materials, as they are discovered, in the hands of students of Indian history for investigation and publication, and, when possible, by having them exhibited in centrally situated museums. The plates under reference were discovered at the bottom of a small tank outsid the Satruñjaya Gate at Pālitānā while the tank was being drained during the time of the la Thakor Saheb of that State 1

A .- PLATES OF DHRUVASENA I.; [VALABHI]-SAM[VAT] 207.

The plates, which are inscribed on one side only, are two in number, each measuring roughly 11½ broad by 6½ high. The edges are just slightly raised in order to protect the writing, which (excepting portions of ll 1-4) is in a state of perfect preservation. The plates are of fair thickness, but the letters, being deep, show through on the reverse sides. The engraving is well executed. Each of the plates has two holes bored in it. A ring of copper passing through one pair of them serves to hold the plates together at one end. The seal, which is an invariable accompaniment of such plates, is missing. The aggregate weight of the plates is about 102 tolas. Each plate contains twelve lines of writing, the last line but one of the second plate contains the date

From the foregoing description of the plates, as well as from the facsimiles of them appearing with this article, it will be evident that this record does not differ in any striking particular from any of the hitherto published records of the same king. Only in the portion dealing with the grant proper does the text of this inscription differ, for example, from that of other plates of this king which were discovered some years back also at Pālitānā, and have been edited by Dr. Sten Konow in a former issue of this Journal. The royal donor, Dhruvasēna, as well as the dataka Mammaka and the writer Kikkaka, are names well known to the Indian epigraphist. It will, therefore, be unnecessary to go here into a minute description of the characters and orthography of this inscription. It will suffice to observe that the alphabet offers a specimen of final t (l. 15), final m (l. 23) and the numerical ideograms 200, 7, and 5, and that the name of the founder of the dynasty is spelt as Bhatakka (l. 3). At the end of line 12 is to be found a horizontal stroke, about $\frac{1}{4}$ long, evidently drawn with a view to fill up the empty space remaining at the end. The reason for leaving the space vacant appears to be that the writer did not wish to commence, at the end of the line, a long word the whole of which would not have been contained in the short space that was left over

The inscription is one of the Mahārāja Dhruvasēna [I.] of the Maitraka dynasty, and the grant contained in it is issued from the city of Valabhī. The object of the inscription appears to be to record the confirmation by Dhruvasēna of the donee, a Brāhmaṇa named Mādhava, of the Sunaka gōtra, student of the Chhandōga School, and resident of the village of Jyēshthanaka (stated to be Akshasaraka-prāvēśya) in the Histavapra-haranī in the possession of some

¹ My friend Pandit Girijasankar Vallabhji of Rajkot, Curator of the Prince of Wales Museum, Bumbay, informs me that the five Palitana plates edited by Prof Konow (above, Vol. XI, pp 104 ff) were discovered at the same place and at the same time as the plates here described.

³ Above, Vol. XI, pp 104 ff.

land already enjoyed by him in the village of which he was a resident Besides Hastavapra, which is the modern Hāthab (6 miles south of Göghā in the Bhāvnagar State), and Valabhī, which is commonly identified with the modern Valā (situated in 21° 52′ N and 71° 57′ E), none of the places can be located. The date of the record is the year 207 (given as usual in numerical ideograms), and the 5th (tithi) of the dark fortnight of Vaisākha. The year when referred to the Gupta-Valabhī era yields AD (207+320)=A.D 527

There are two expressions in this inscription, both occurring in the portion dealing with the grant proper, which deserve some comment they are Akshasaraka-prārēšya- (1 12) and sa-śaibaram (1 16) The latter we will consider first

Being mentioned along with the well-known technical expressions sa-hirany-ādēyam and sa-bhāta-tāta°, sa-śaibaram must be a term of like nature, i.e. a technicality of the lawyers, but what its significance may be I am unable to surmise. There can be no question regarding the correctness of the reading, the letters are perfectly distinct. The word śaibara is not to be found in dictionaries, nor have I come across it elsewhere. I can only think that it may be, as it stands, a clerical error, but I am unable to suggest any plausible emendation for it

The word prāvēšya in the other expression referred to above is also one that presents some difficulty to the interpreter. Here it is used in compound with Akshasaraka, evidently a placename, and serves to locate more definitely the village Jyēshṭhānaka situated in the Hastavapraharanī. As far as I know, the word prāvēšya has been met with only twice before once in another Valabhī grant, occurring there in a compound with the same place-name Akshasaraka, and once again in the Khariar grant of Mahāsudēva, compounded with the word Navannaka, which is also a place-name

The former record forms one of the five Valabhi grants from Pālitānāl edited by Prof Sten Konow, and is a grant of Dhruvasēna I, dated in Samvat 210 In that connection Prof Konow rightly points out that the phrase Akshasaraka-prālēsya of the grant corresponds to the Akshasaraka-prūpiya in a third Valabhi grant,2 uz the Ganēśgad (Baroda) plates of Dhruvasēna Hultzsch, when editing the latter grant, translated the phrase by 'which bedated Samvat 207 longs to the Akshasaraka-prāpa' Prof Konow, who regards prāvēšya and prāpiya as synonyms, rejects Hultzsch's rendering of Akshasaraka-prāpiya and advances the suggestion that prātēšya in this connection means the same thing as in the phrase a-chāta-bhata-prātēśya, and accordingly translates the phrase by 'which can be entered from (ie, which borders on) Akshasaraka' I cannot, in the first place, admit that the expressions a-chāta-bhata-prāiēšya and Akshasarakapracesya correspond exactly For in the former the first men ber of the compound comprises the logical subject of the verb contained in prātēšya, but such cannot be the case with the second expression, even if we assign to it the meaning which Prof Konow does Secondly, I do not understand what is meant by saying that a village could be 'entered' from such and such a place If, moreover, pratesya meant the same thing as 'bordering on,' as Prof Konow asserts, I cannot help thinking that the writer would have employed a simple word like samipa or parsua-rantan, which he at hand, to express that simple idea of proximity rather than use the circumlocution of praiesya or prapiya Hultzsch, on the other hand, appears to me to be undoubtedly on the right track He looks upon prāpīya as a derivative of prāpa, which he takes to be a word denoting a territorial division smaller than an ahara Similarly the analogous term prārēšya should also be looked upon as a taddhīta of prārēša That this derivation is correct may be seen from the Kharrar plates of Mahasudeva, in which a village is described (1 4) as Kshrimad-āhāriya and Karannaha-etat-prārēšya No one will dispute that āhāriya is derived from ahara ('district,' 'province') by the addition of the suffix -iya That supplies us with the clue to the explanation of the other words under consideration here All these words are derived

¹ Above, Vol MI. pp 101 ff , and P'a'es

² Above, Vol III, p. 320, and Plate

by the addition of the secondary -(i)ya to the strengthened forms of the roots \bar{a} - hri_npra -(\bar{a} -)vis and pra-(\bar{a} -) $\bar{a}p$ ('bring to,' 'carry to'), words with only minute differences of meaning I feel, therefore, constrained to reject the interpretation of Prof Konow in favour of the other $Pr\bar{a}p\bar{i}ya$ I take to be 'that which belongs to the $pr\bar{a}pa$,' and $pr\bar{a}v\bar{a}sya$ 'that which belongs to the $pr\bar{a}pa$,' and $prav\bar{a}sya$ 'that which belongs to the $prav\bar{a}sya$ (or $prav\bar{a}sya$)', both prapa and $prav\bar{a}sya$ I regard as territorial divisions smaller than the $\bar{a}h\bar{a}r$,

TEXT.

Plate A.

- 10 'परमभद्यारकपादानुब्या(ध्या) तो मचागजध्रुवसेन: कुश्रनी सन्वीनेव खानायुक्त-नियुक्तकचाट-
- 11 भटद्राष्ट्रिकमञ्चत्रभुवस्थानाधिकरणिकदाण्डपाशिकादीनन्याकः वधासंबद्ध्यमान
- 12 दर्भयत्यस्तु वसंविदितं यथा मग्रा इस्तवप्रहरखामचसरकपावेश्व-⁵

Plete A.

- 13 च्येष्ठानक्यामे उत्तरसीन्ति पादावर्त्तश्चतं षष्ट्यधिकं तिस्त्रवि ग्रामव व्यापन
- 14 संगोत्राणां क्रन्दोगसब्बद्धाचारीणां ब्रह्मणसाधवपूर्वसुज्यसानकं (:) सातापित्री:
- 15 पुरुषाधायनायात्मना¹⁰यैहिकासुषिकयथाभिलिवितप्रलावासिनिसित्ता¹¹माचन्द्राकी-गर्णवित्तिसिरत-
- 16 पर्यतस्थितसमकासीन पुत्रपात्रान्वयभीच्या सभीवरं महि[र*]खादेय सभूत्या-तप्रत्यायिक्षुद्वाः
- 17 **उदकातिसर्गेण ब्रह्मदेयं निस्ट** "¹⁴[1*] यत एषां ब्रह्मदेयस्थित्या भुजता¹⁵
- 18 स्त्रसाम्यावधा¹⁷ विचारणा वा न कार्यास्त्रप्रजैर¹⁸गामिसदृत्रपतिभिन्न¹⁹नित्या-गौन्नर्यास्यस्थिरं मान्यं
- 19 सामान्य²⁰ च भूमिदानपालमवगच्छित्ररयमस्नाद्दायीतुमन्तव्य [:|*] (उ) यसच्छिन्द्या-टच्छिकामानं²¹ वातसीटे-

¹ From the original plates, and a set of estampages

² Up to this, the text is practically identical with the text of the Pälitänä plate of Dhruvasina 1 (dated servet 206), published above, Vol XI, pp 106 ff The only varia lections are ununportant mistakes of orthography, which it would be unnecessary to register individually as the facelimiles are there for reference.

^{*} Read outy.

⁴ Read oning-

In the original a short horizontal stroke after vy

^{*} Read चेंब.

⁷ A short vacant space between **ब** and व्य Read ग्रासवासाव्य

⁸ Read °चारिचा ब्राह्मण°.

Read प्रमास्त्र The anusvāra is written over the line between का and आ. The letters purovā क्रियाभूब-bhuyamānakah have been engraved over some faintly incised letters.

¹⁰ Read w.

¹¹ Read w

¹² Read sq

¹⁸ Rend W.

¹⁴ Read w

¹⁵ Read signal

¹⁸ Read तांच

¹⁷ Read °arej.

¹⁸ Read T

¹⁰ Read 21.

²⁰ Read ar.

- 20 त्स पंचिम: महापातकैस्रोपपातकैस्तयुक्तस्य दिप चात्र व्यासगीता: श्लोका भवन्ति [॥*] बहुभिर्व्वसुधा
- 21 भुक्ता राजभिसागरादिभि: ।*] यस्य यस्य यदा भूमि: तस्य तस्य तदा फलं [॥*] स्वदत्तां परदत्तां वा यो हरेत
- 22 वसुन्धरां [1*] गवां श्रतसन्दस्य इन्तु[:*] 'प्राप्नोति किल्बिषां' [॥*] पूर्वे-दत्तां दिनातिस्यो यताद्रच युधिष्ठर(:) [1*]
- 23 सिंह मिसितां श्रेष्ठ दानाच्छेयोनुपालनस् [॥*] दूतकः प्रतीहारसम्प्रकः [॥*] सं २०० ७ वैश्रखं व ५ [॥*]
- 24 खहस्तो मम महाराजभु[व*]सेनस्य [॥*] लिखितं किक्कनेनित [॥*]

[Ll 1-11 contain the usual preamble, for translation, cf, for instance, that of the opening lines of the Pālitānā plates, No 1, edited by Prof Konow, Ep Ind, Vol XI, p 108.]

(Lil 12-16) Be it known to you that for the purpose of increasing the religious ment of (my) mother and father, and for the sake of the attainment of the desired reward both in this world and in the next, I have confirmed, as brahma-dēya, with libation of water, (the enjoyment of) one hundred and sixty pādāiarttas, on the northern boundary of the Jyēshthānaka village belonging to the Akshasaraka-prāiēsya in the Hastavapra-haranī, which had (formerly) been and are (still) being enjoyed (by the donee?), for (the benefit of) the resident of the same village, (namely,) the Brāhmaṇa Mādhava of the Śunaka gōtra, a student of the Chhandōga School,—to last for the şame time as the moon, sun, ocean, earth, the rivers and mountains, to be enjoyed by the succession of his sons and sons' sons,—with (p) śaibara, with gold (and) ādēya, with bhūta, vāta, and (p) surety of holding (pratyāya)

(Li 17-19) Wherefore, no enquiry should be made or obstruction caused (to him) by any one, while he is, according to the proper conditions of a brahma-dēya, enjoying, cultivating, or assigning (it to others). And this our gift should be assented to by those born in our lineage, and by future good kings, bearing in mind that power is perishable, the life of man is uncertain, and that the reward of a gift of land is common. And he who confiscates it or assents to its confiscation incurs the guilt of the five great sins together with the minor ones

(Ll. 20-22) There are also two verses sung by Vyāsa about this

[Here follow two of the customary verses]

- (L 23) The dūtaka is the pratīhāra Mammaka (Dated the) 5th (tithi) of the dark (fortnight) of Vaiśākha (in the) year 200 7
- (L 24) (This is) the sign-manual of me Mahārāja Dhruvasēna [I]. Written by Kikkaka

B-ANOTHER PLATE OF [DHRUVASENA I.]

This plate, which contains only the opening portion of a land-grant of the Maitraka king Dhruvasčna I, is inscribed on one side only and measures roughly $10\frac{3}{4}$ broad by $6\frac{3}{4}$ high The

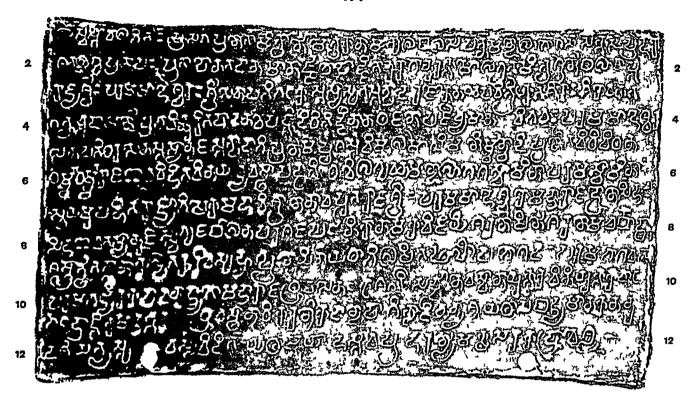
¹ Read (sur

Over HI there is a peculiar sign, the meaning of which is not apparent [Ithink it is upadmānīya —Ed]

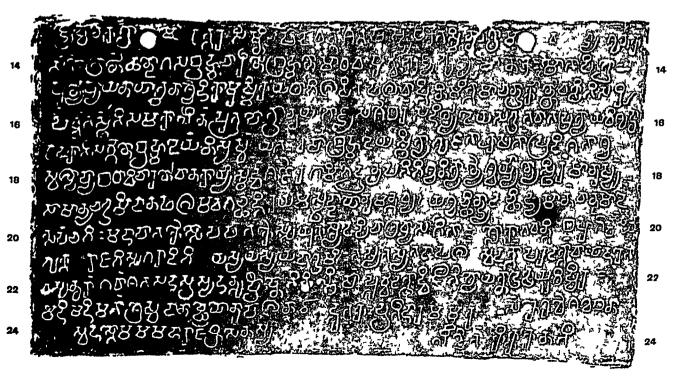
The construction of line 14 is somewhat confused; it is not clear who the dones was, or who, at the time of the grant, was in possession of the land which is the object of the grant. As it stands, the text does not make any sense; my rendering is conjectural

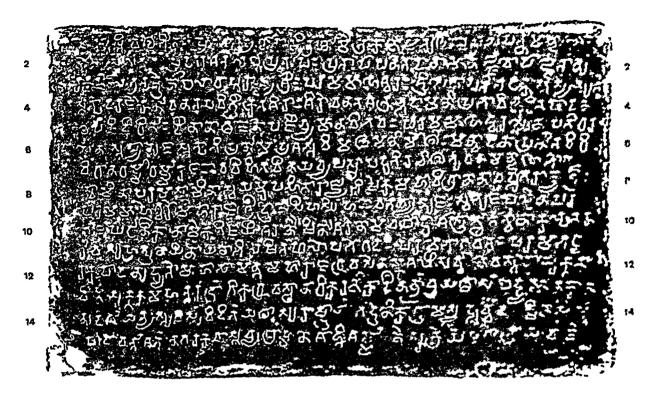
Two Palitana Grants of Dhruvasena [I].

Ai

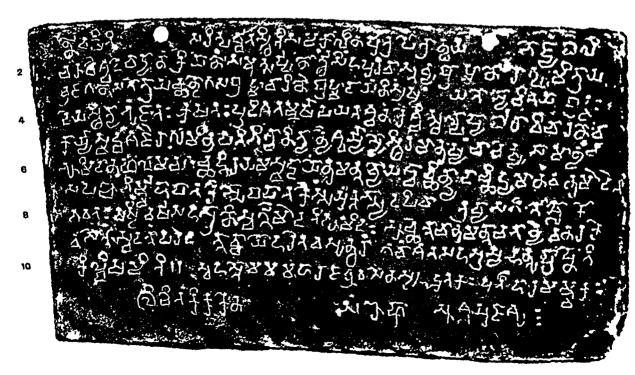


Au





Kathiawad Plate of Dhruvasena [1] · Samvat 206.



SCALE ONE-HALF

edges are just slightly raised, in order to protect the writing, which is in a state of excellent preservation throughout. The letters, which are deeply incised, show through on the reverse side of the plate. The engraving is well executed. The plate has a pair of holes bored at two adjacent corners and intended for receiving the ring and seal, which are missing. Its weight is 56 tōlas. It contains fifteen lines of writing. The letters are of the period to which the plate refers itself, and of the type met with on other plates of the Maitraka dynasty. In short, this record is exactly like any of the large number of grants of Dhruvasēna I that have latterly been brought to light. A detailed description of the characters, language and orthography of these plates, or even an English rendering of the text, seems superfluous. We may take it for granted that the dūtaka of this grant was the patēhāra Mammaka, and the writer Kikkaka

The grant was issued from Valabhi by the Mahāsāmanta Mahārāja Dhruvasēna [I] to the Brāhmana Śūntiśarman of the Ātrēya gōtia, [a student of] the Vāji [sanēya] School and a resident of Nagaraka, either bestowing upon him or confirming him in the possession of one hundred pādārarttas of land on the south-eastern boundary of the village of Bhadiēnikā, situated in Surāshtrā

I am unable to identify Bhadiënikā Nagaraka is probably Vadnagai, the home of the Nagar Brahmans

TEXT.

Plate B

- 12 . . . 'महासामन्तमहाराजध्रवसेनङ्ग्राली सर्वानिव खानायुक्तक-
- 13 विनियुक्तकमञ्चलरद्रागिकध्रुवस्थानाधिकरणिकादीनन्यांच यथासबद्धामानकान-
- 14 नुदर्शयत्यस्तु वस्रंविदितं यथा सुराष्ट्रायां भद्रेणिकाग्रामस्य पूर्वेदिचण-
- 15 पादावर्त्तशतं नगरकवास्तव्यवाद्मणशान्तिशमीणे आदेयसगोत्राय वार्जिं-

POSTSCRIPT.

A PLATE OF DHRUVASENA DATED SAM. 208

Since writing the above I have come across a new Valabhi plate containing the concluding portion of a grant of Dhruvasēna dated in sam 206, about which I should like to add a few words in continuation of the above note on the Bhavnagar plates. This new plate was placed in my hands for decipherment by Mi. J C Chatterjee, Dharmādhyaksha (Secretary in the Ecclesiastical Department) to the Government of His Highness the Gaikwar of Baioda. It was sent to him, he told me, officially from Kathiawad for decipherment, that is all that I could elicit from him regarding its previous history. The plate is $11\frac{1}{4}$ inches long by $6\frac{1}{2}$ inches broad, the edges are raised to protect the writing, which is in a state of perfect preservation, and the characters belong to the period to which the plate refers itself in one word, the grant is similar in every respect to the records of the Valabhi kings that have hitherto come to light.

I From the original plate, and a set of estampages

² Up to this the text is practically identical with the text of the Pālitānā Plate of Dhravasona I (dated 206), published above, Vol XI, pp 105 ff. In ! 6, read *t-pād-ābhipranāma* for *t-pābhīpranāma*, and Manvādinā for *dānā

⁸ Read Elfa.

⁴ The rest of the inscription is missing

The inscription is one of Māhīrāja Dhruvasēna [I.] and records the grant of a village (of which the name must have occurred in the missing portion of the grant and is therefore now lost) to a Bril man named Botghamitra of the Vrajagana götra, a student of the Chhandōga School, and resident of Simhapura, for the maintenance of certain sacrifices. The grant is dated sam. 200 6, Āsvina sukla 3. The samrat year, when referred to the Valabhi era, yields A.D. (206+319) 525. The datal a was Mammaka, and the writer Kikkaka, as usual.

The only point worthy of notice in this grant is the village-name Simhapura, which is residence in it as the residence of the grantee. It is tempting to identify it with Sihōr in the east of the Kathiawad peninsula, a junction on the Bhavanagar-Wadhwan Railway, not far firm Vals the ancient Valabhi

[KATHIAWAD PLATE OF DHRUVASENA [I.]]

TEXT 1

- I manga-kaluti-sarit-parvvata-sthiti-samakālinam putra-pautr-ānvaya-bhōjyam bali-
- 2 chara-ta.«tad*t-adyānām krayānām samutsarppan-ārttham Simhapura-vāstavyabrāhmana-Rōtghamitrāya
- 3 Vrajagana-sa-götráya (Ch)Chhandöga-sa-brahmacháriné brahma-dáyam nisrishtam [10] yatözsyzőchitnyá brahma-
- 4 dēya-sthityā bhumjatah krishatah pradicatah=karshāpayatać=cha na kaić=chit=svalpāpy-shādhā vichāranā vā
- 5 kirşy-k-mad-vamsajair-ägummii-nzipatibhis-ch-änityany-aisvairyyany-asthiram manushyam ch-ävikshya samanyam cha
- 6 hhumi-dana-phalam-aragachchhadbhir-ayam-asmad-däyö-numantavyö yas-ch-achchhindyid-achchhidyamanam v-anumödet
- 7 🙉 prīchabhir-mmahā-pātakais-s-opapātakais-samyuktas-syād-api ch-ātra Vyāsa-gītan 615kau
- bilavatah [[*] shashtım[*] varsha-sahasrāņi svarggē mēdati bhūmidaḥ[[*] āchchhettā ch-knumantā cha tāny-ēva narakē
- 9 van't [['t"] sva-dattām para-dattā[m"]=vvā yō harēta vasundharām [["] gavām
- 10 kilira' מיין["נְיּיּ] iti sva-hastō mama mahārāja-Dhruvasēnasya [[|*] dūtakah prathāra Mammakaḥ [[|*]
- 11 1 th 'am Kikkakons [[]*] sam 200 6 Asvayuja su 3 [[]*]

> 6 -SRIRANGAM COPPER-PLATE GRANT OF DEVARAYA II; SAKA 1349 (1350)

BY THE LATE T A GOPINATHA RAO, M.A., TRIVANDRUM

Ti-temple of Sti-Ratganaths at Srirangam possesses, among others, two sets of copperplantable provide the reign of the Vijayanagara king Devaraya II. The inscriptions engraved appear there are acted below from the impressions prepared under my supervision.

No I. BAKA-BAMVAT 1849

To can' receive of three places (size 10] × 6} in), of which the first and the third bear are easy, namely, the record side of the first and the first side of the third.

[&]quot; fr ... " Here gran plate and a set of impressors.

^{2 [}Read ogami.—Ed.]

The inscription is in good state of preservation. The alphabet in which the record is written is Nandināgarī, and the language partly Sanskrit and partly Kannada. The first section covers 41 and the second 34 lines, and the remaining portion contains the usual admonitory and imprecatory verses. At the end appears as is usual with the documents of the kings of the first dynasty of Vijayanagara, the word \$\int_{ri}\cdot vir\bar{a}p\bar{a}ksha\$, the sign-manual of the king, written in the Telugu-Kannada alphabet. The same sort of mistakes, careless execution of the engraving, leaving room for a number of corrections, erasures, interlineations, etc., and other faults common to the other grants of this period are to be found in these two sets of copper-plates also, there is no necessity for them to be noticed in detail here, they are noted in the foot-notes at the appropriate places

The record is dated Saka 1349, which is expressed by the chronogram dhiralola, this year corresponded to the cyclic year Playanga. In the Kannada portion the Saka year is given as 1350, and the same Playanga is said to be current. On a Sunday, which was the Utthana dvadasi tithe in the bright half of the month Karttika, the king Deva-Raya II granted to the God Ranganatha of Srirangam the village of Pandamangalam together with the sub-villages, Tirunalūr, Sēranarbanda-perumā-nallūr, and Sunepuha-nalūr, in the name and for the ment of his mother Nārāyanāmbikā. The genealogy of the king is traced thus—

Sangama

His middle son
Bukka I

md Gaurāmbikā

Harihai ēšvara

Pratāpa-dēva-Rāya I

md Dēmāmbikā

Vijaya-Bhūpati

md Nārāyanāmbikā

Dēva-Rāya II

Dēva-Rāya II beats the birudas, Rāj-ādhirāja, Rāja-param-ēstara, Bhāsh-ātilanghi-bhūpālabhujanga (=Bhāshege-tappura-rāyara-ganda), Mūru-rāyara-ganda and Hindu-rāya-suratrāna. Having ascended his ancestral throne and while protecting the kingdom, residing in his capital Vijayanagara, which is situated on the bank of the river Tungabhadra, king Deva-Raya made the grant mentioned above in the presence of the god Virupaksha on the bank of the Tungabha-The villages Pandamangalam, Tilunalül and Seranaibanda-peruma-nallür are said to have been situated in the Rajagambhira valanadu on the south side of the river Kaveri, and Sunepuha-nalūi in the Mēlmuri of the Mala nādu, a sub-division of the Rājarāja valanādu, on the The Kannada portion adds that the villages belonged to the Amarada north of the same river All of them belonged also to the Tiruchchirāppalli rājya or chāvadī The purpose for which the grant is made is given in full detail in the Kannada portion From the income of the villages twelve perpetual lamps should be burned, flower-garlands dedicated and one festival celebrated The grant was made as an auxiliary to the Gō-sahasra Mahādāna performed by The grant was ordered to be executed from the first tithi of the bright fortnight of The income from the villages situated on the south of the Käveri was the month Ashādha 1403 coms (kula-gadyāna), and that from the village on the north of the river 420, total 1,82

gadyanas. A number of taxes leviable in these villages are included in the grant, they are taxes on the nansey, punsey, pum-payer, vāsal- and manai-ppēru-kadamai, tari-kkadamai, māvadai. maravadai, kulavadai, kalāyam, tirigai-āyam, pēr-kadamai (tari-kadumai), āļukku-nīr-pattam; mahamar, kattıgar-avasaram, patai-kanıkkar, Aqı-Karttıgai-pachchar, and all old and new taxev Several of these have remained unexplained up till now. It is easy to understand the nature of the first four, they are levied on wet and dry cultivation, on inferior crops, on houses and compounds and on looms, māradai, mararadai and kuļaradai are taxes on animals, trees and tanks. that is, perhaps, when animals are sold in markets, on fruit-bearing trees and for fishing in Kalayam literally means tax on stone, it is very likely a tax payable for quarrying stones from hills, what tax is meant by tirigai-ayam is not known Per-ladaman means taxes on persons, a sort of poll-tax evidently. Alukku-nir-pattam is a tax for maintaining the person appointed for making regular supply of water to the fields this appears to be the same Magamas is a conjupt form of magamus, the nature of Ling a son to another. this levy is still in force among certain merchants in the Tanjore and Trichinopoly districts On all sales and purchases the merchants collect a small, but fixed, sum and utilize the money thus collected for some public purpose Compare similar words, as köyij mas corrupted into köyma, ürānma, etc Kattigai-aiasaram appears to be some sort of tax on fire-wood, and pata: (padai)-kkāmkkai is the contribution to be made for the maintenance of the army. Pachchai means a kānikkai, a nazar, a present on important occasions. In this sense the word is employed in contemporary literature, for instance, in Sri-iachana-bhūshanam, I, 33 and 31 Such kānil-Lais seem to be given in the months of Adi and Karttigai.

The following places and rivers are mentioned in the inscription —Tungabhadra, Vijayanagara, Tiruchchirāppalli, Kāvērī, Rājagambhīra taļanādu, Pānda-mangelam, Tirunalūr, Sēranaibanda-perumā-ņallūr, Rājarāja talanādu, Mēlmuri-of the Mala nādu and Šuno-puha-nalūr. Of these the Tungabhadrā and the Kāvērī are the well-known rivers of South India Tiruchchirāppalli is the modern town of Trichinopoly, the head-quarters of the district of the same name. The part of the country immediately to the south of the river Kāvērī was known to medieval inscriptions as the Rājagambhīra taļanādu, and that on the north of the same as the Rājarāja valanādu. Mala nādu is a sub-division of this territory and has given its name to a section of the Tamil Brāhmanas, i.e. the Bihach-charana community of Mala nādu Vijayanagara, the capital of the famous Hindu kings of Southern India, is the modern Hampe on the Tungabhadrā. Pānda-mangalam is a village a mile and a half west of Trichinopoly, this and Tirunalūr are in the Trichinopoly Tālūk, the correct form of the name Šēranaibanda-perumā-nallūr is Šēranai-venra-perumāl-nallūr. There is a village some distance south of Pānda-mangalam called Vēndarāya-nallūr. This is perhaps the same. Šunepuha-nalūr is situated at a distance of seven and a half mīles to the north-nest of Trīchinopoly

TEXT

[Metres - vv 1-25, Anushtubh, and v. 26, Salini]

First Plate Second Side.

- 1 त्रीगवाधिपतय नम: [॥*] नम(:))स्ते [॥*] नम(:)स्ते [॥*] नम(:)स्तुगिस
- 2 रचुवि चंद्रचाम[र*][चा]रवे [।*] नैलोकानगरारंभमूल-

¹ From impressions prepared under my supervision

² Read ogwinigin.

- रूंभाय संभवे 1 (तु) ।[। 1°] भू $[2^*]$ क्षे 2 भवतां भूते 3 भूयादा क्ये 4
- कंजर:[।*] श्राइविधारकांतार श्र[ा*]⁵गमान्यस्य [यो]-
- गिन: 1[1 2*] चीसं व: प्रचरीक्षयीत्चीणीसंभ्यद्वहंनयं [1*] क्रि]-
- डाक्षतिरभूद्यस्य क्रीडापल्व[ल]सब्धिं"[:॥ ३*] श्रस्ति चीरा[णै]-
- वोङ्गतमपां पु[प्प]सनुत्तमां । भन्नानदं निर्माख्यमाध-7
- त्ते धिरसीयर: [॥ 4*] सदासीदनिधेखस्य संतानियद्र[सं]-10 8
- [ज्ञि]ते [।*] प्रभृदासर्यम[] ष्यं वसुधायान्तप:फलं [॥ 5*]
- संगमी नाम रा[जा]भू [त्सा]रभूते तदन्वये [।*] रेजे यस्य 10
- यश: श्रिंधी: 11 सर[णी]व सुरापगा [॥ 6*] सर्वरत्नि[ध]-11
- स्तस्य समाडासीत्तनूभुवं¹² । यद्धे बुक्तमहीपालो स-12
- णीनामिव कौस्तुभ: [॥ 7*] तस्य गौरांविकाजानेस्त(नयो वि)-13
- नयोभृह्गणें वत: [।*] [हा]रगीरयश.पु रहारिहरिह[रे]-14
- थर: [॥ 8*] ¹⁶यपोर्डभमहादानयभसां दिग्विहारिणां [!*] भूय[सा]-15
- मभवंनाल भुवनानि चतुर्देश [॥ 9*] प्रतापदेवरायाख्यः 16
- पुत्रोमृ[इ] "वि विश्वतः [।*] प्रमोद दव सूत्ती यः प्रजानां स्त्रेग-17
- चैर[भ्]] ¹⁸त् [॥ 10*] प्रत्य[थि]सिमधी इत्वा प्रतापारनी रणांकणे [।*] ¹⁹ 18
- विजितो येन(1) वीरेण विजयश्रीकरग्रह: [॥ 11*] तस्य दे-19
- मांविकाजानेस्तनयो विनयोत्रत: [।*] विद्यानिधि-20
- विशेषक्षी वीरी विजयसूपति: [॥ 12*] दयानिचेर[सू]-21
- त्तस्य देवीनारायणांविका [1[‡]] शीरेरिव महालस्त्रीः शं-22
- [का रखेव पार्वती [॥ 13*] पुत्रक्षं तयो [:*] साध्यं पु²⁰वेजना त-23

Second Plate - First Side

- 24 प:पालं [1*] देवरायमचीपाली दाता दीव्यति भूतले [॥ 14*]
- 25 विक्रमे विक्रम[[*]दित्यं भीगे भोजमिवायरं [।*] राजराजं वि-
 - 1 Read mo
 - 1 Read व्हाचर्य.
 - 7 Read oसस्त्रधिः
- 10 Read सन्तान यद्धंतितम्.
- 18 Read 11
- 16 Read oanie
- 19 Read रणाङ्गणे

- 2 Read सूयस्ये
- 5 Read कालारमाo.
- 8 Read oसस्.
- 11 Boad यश: सिन्धी;
- 14 Read u.
- 17 Read of.
- 20 Bend q.

- 8 Read भूत्य
- 6 Read वेंद्रग्रयम्.
- PRead प्रसान यदनिर्माष्य .
- 12 Bead सामाडासीत्रम्सवास्.
- 15 Read vellen.
- 18 Bead oH.

- सर्यो राजानं यं प्रचचते [॥ 15°] श्रसंगरंगका किंगवंगाया-26
- यामरादिभि: [1⁴] राजानी यं राजेवंते¹ राजचिन्हें: खयं[धृ]-27
- तै: [॥ 16^t] राजाधिराज(:)स्तेनस्ती यो राजपरमे[च]र: [।*] आपाति-28
- खंघिसूपालस्जंगविं[क]होंबतः ॥ 17*] स्त्रायरगडाकः 29
- परराजभयंकर: [1^t] हिंदूराय[सु]रचाणी वंदिवर्गेण वं-30
- र्ष्धते [॥ 18*] श्रीतुंगसद्रापिष्ठे नगरे विजयाद्वये [।*] पिश्यं 81
- सिंचासन प्राप्य पासयनपृ[यि]वीति सां [n 19*] पंख्य से[ा*]का-32
- यगं[खो] सी देवरायमहीपति:[।*] विवलीके सक्तशा-
- [न्दे] प्र[नंगा] ह्वय[वन्क्¹⁰रे] [॥ 20*] क्य[ा] त्तिके मासि सुंधायां वाद[ग्या]-
- सार्क्षवासये12 [1*] तुंगसद्रानदीती[रे] श्रीविक्ष्पाच्चसंनि-
- [भी] [॥ 21*] नि[सि]रापत्तिरा [च्ये] रांजगंभीरवल्सिटे नावेरिय-
- दिचिषे पाडमंगलया[म*] [द]लुभी तिक्नलूरिषि सेर्नैबंड-
- पेक्सानल्रि उत्तरेयाश्चकंन्यायां¹⁵ राजराजवलसि-38
- धे प्रवृत्तपदे सुनेपुद्धनसुरधा उभी श्रीरंगरानश परि-
- यार्थं ¹⁶नारायणविभध[ा*]नत: घेनैव¹⁷ देवराजेन दत्तं श्रीव-
- र्नावुधारया¹⁸ ॥ खस्ति श्री जयाबुदाय सेकवर्ष¹⁹ १३५० प्रवं-
- गसंवक्कृ²⁰रद कार्तिकसुध उत्तानुद[ा⁹]दसि³¹पुखकालद 42
- श्रीमं²²न्महाराजाधिराजपरमेस्व³³र श्रीवीरप्रतापदे-
- 44 वरायमहारायक श्रीरंगनायदेवरिंग नारायणदेवी-
- 45 श्रे[ा*]वगल हेखरिक श्रींदु श्वनसरव नलसुव श्रद्वे दिन
- [श्री]दने²⁵ इनेरडु परिवाणनंदादीविशेवगमाले श्रीन 46

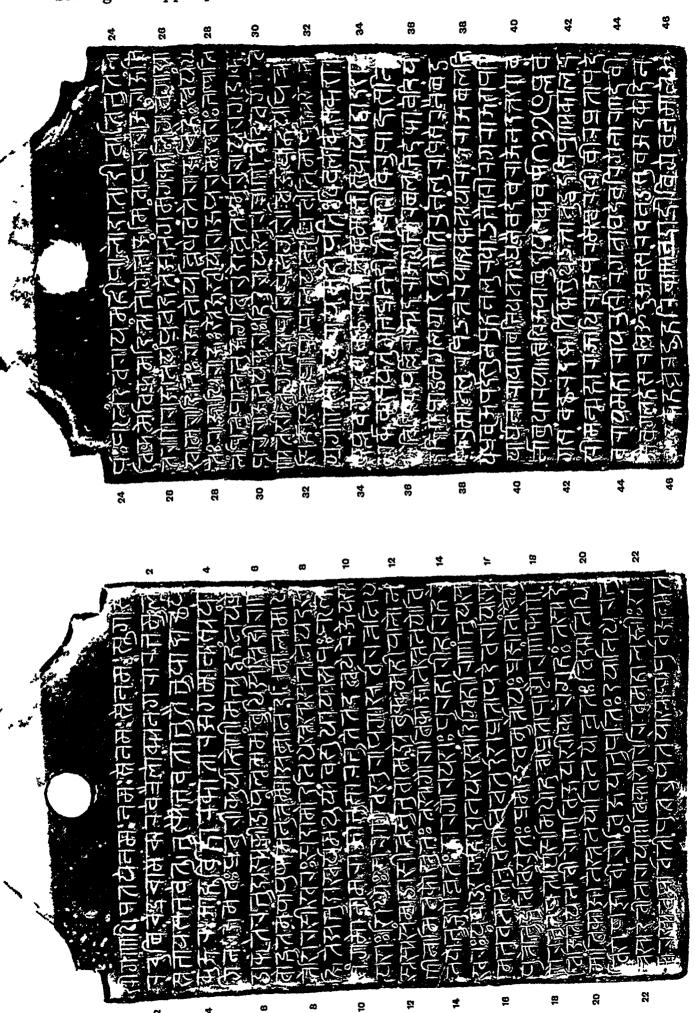
Second Plate . Second Side

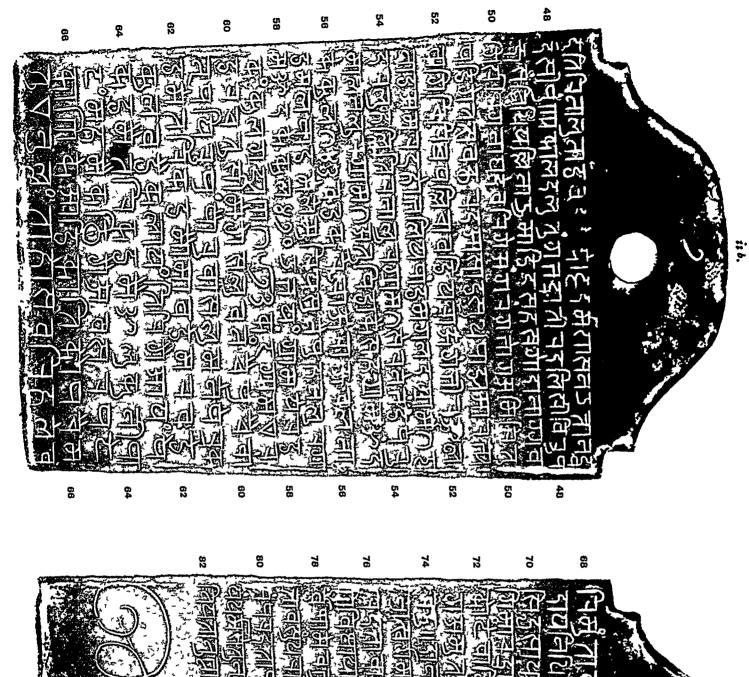
दु तिरुनासु न(ा) खदुदके कोष्ट दमेशासन विश्व [!*] उत्तानद [!]-47

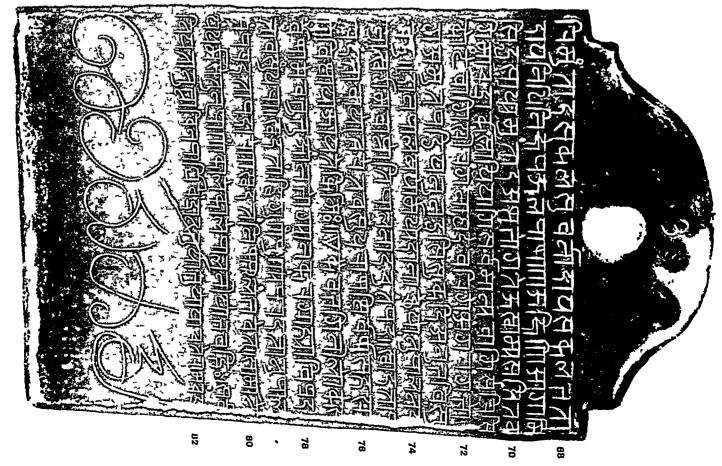
- Bead निधेवनी
- Bead Tree
- Bead you
- 10 Read रस
- 18 Bead राजगभीरनलाशिधकावेगी.
- " Bood श्रीरङ्गालख परिषयांघं .
- u Read ज्यासग्द्यम्यः
- 19 Kead H
- " Bead मान्द्री

- 2 Read भुनद्गविषदोत्रतः
- E Reed q.
- 8 Read व्यक्तीसी.
- 11 Read usuui.
- 16 Read पाण्डसद्वाचपास नलुसी-
- 19 Read Cपान्याभिधानत, शेर्वेन.
- 20 Read रस.
- 28 Read 4
- 20 Read HHO

- Read offeria.
- s Read oft.
- Bead श्रावेचाव्हे.
- 12 Read 7.
- 15 Read सत्यवन्याया.
- 18 Read खर्णान्युधारया.
- 21 Read खळानहादमी.
- 24 Road oach.







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दसीपुंखाकालदलु तुंगभद्रातीरदलि चीविक्रप[ा]-
48
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- चसंनिधियति नाज माडिद सहस्रगीदानागाव[1]-
- गि त्रोरंगनायदेवरिरी खंगरंगभीग श्रमिरित-50
- 51 पंडिंगे तरसवच्छरद श्रामाष्ट सुध पाद्य'
- यागि चिरिप्र पिलचाविडय राजगंभीर श्रीक 52
- नाड अमरदहोभिलय पांडमगलद गाम 53
- 5 k दरल्हिम तिरनाल्र ग्राम १ सेरनेभंडपेर-
- मालेनल्र याम १ मतुं पिडाकीसर
- 56 की वाल १४०२ [1*] वडकर
- ड मलनाड मेलिसरिय सुनेपुरुनल्र गा-57
- 58
- 59 कं क्रकगदा[1*]ण १८२३ [1*] कंदग्रास एर-
- डर चतुसीमेरी सल्व नंचे पूंची वां-60
- नपयिर पुंपीस वांसलुमनेपेरक-61
- डमे¹⁰ तरिकडमी¹¹ मावडे मरबहे 62
- कुळवडे कलायं तिरिगै यायं पे 63
- कडसे" तरिकडमे श्रीलुकुनीपा-
- टं सहसे कठिगैश्रवसर पटे-13
- काणिके पाडिकातिकै(1)पचै म-66
- त14 एनुइता छोसवरि15 हलेव-67

Third Plate First Side.

- रि स्ताद सवाल सुवनीदाय सकलभता-¹⁰ 68
- टाय निधिनिचेपजलपापाण श्रचिणि श्रागामि 69
- सिदसाध्य मंताद श्रष्टभोगतेन[:*]सास्यम[हि]तव[ा]-70
- निमाचंद्रार्के स्ता"यियागि सर्वमान्यवागि सेरिसि 71
- कोटेवागि श्रीरंगनायदेवरिंगे श्रंगरंगभी-72
- श्रमुतपडियनु नडिस सुकदिं शनुभविसु-
- टानपालनयोर्मध्ये दानाच्छेयोत्रपालनं [।*] दा-
 - 1 Read year.

2 Read नायु

- 3 Read ongali
- 4 Bead तरसवरसरह प्रामादग्रज पायामे 6 Read तिव्विरापितः
- 6 Read शेरनैवेन्रपेबनाळ्न्हूर.

? Rend भना.

- B Read परवर
- 9 Read आन्द्रवी
- 10 Read पुन्पयिर्वाशव्सनिपेहकसमे. 11 Read कडमे.
 12 Read पेश्वेसमे. This and tarr-kadamar are repeated unnocessarily
- 18 Read 🕏

- 16 Boad om तियो पश मनु.
- 15 Read Pleque.
- 18 Read wr.

17 Read wil.

18 The letter न in पालन looks like व.

- नात्स्वर्गसवाप्नोति पालनादचुंतं पदं॥ [22*] खदत्तां [प]-75
- वा यो हरेत वसुंधरा[म् ।*] षष्टिवर्षसह[या]-3
- जायते जिसः ॥ [23*] 'एकीव भगिनी लोनी स-
- भूसुजां [1*] न भोग्या न वरग्राष्ट्रा 78
- ॥[21*] खदत्तांहि गुणं पुर्खं परदत्तानुपाल-79
- खदतं निष्पतं भवेत् ॥[25*] सामान्यो-[14] परदत्तापदारेण 80
- कालि कालि पालनीयो अविद्धः धमंसेत् चृ⁹पाणां 83
- निगतानु भाषिवादा स्था स्थी स्थी याचते रासचंद्र [:॥26*] 82
- मोविरूपाच¹² 83

ABSTRACT OF CONTENTS.

Verse 1 Adoration to Sambhu (Śwa)

- V 2 Adoration to Gancsa
- V 3 Adoration to Varaha
- V. 4-5 On earth, as the finit of its tapas, was born Yadu in the family of the Moon, which came out of the ocean of milk and is worn by Siva on his head
- Vv 6-7 In his race was born a king named Sangama His middle son was Bukka. who resembled the jewel kaustabha among other jewels
- Vv 8-9 To him by Gaurambika was born a son, named Harihara, who was gentle The renown of his making the sixteen great gifts (mahādāna) redounded even and famous beyond the fourteen worlds
- Vi 10 12 His son was Pratapa-deva-Rays, who appeared the embodiment of the happiness of his subjects. He conquered his enemies in battles by the prowess of his arms and obtained the favour of Vijaya-Lakshmi (goddess of Victory) To him, as husband of Dēmāmbikā, was born the prince Vijaya-Bhūpati
- Vi 13-18 The queen of Vijaya-Bhūpati was Nārāyanāmbikā. As the fruit of the meritorious acts done by them in their previous birth, Deva-Raya was born to Vijaya-Bhūpati and Nārāyanāmbikā and distinguished himself on earth He is compared to Vikramāditja in valoni, to Bhoja in his bloga (P) and to Rāja-iāja (ie Kubēra) in his mumificence The kings of the Anga, Kalinga, Vanga, etc., countries did homage to this king, holding chanaras and other royal insigma in their hands. He bore the birudas Rāj-ādhirāja, Rija param-isvara, Bhash-atilanghi-bhupala-bhujanga, Muru-rayara-ganda, Para-raja-bhayankrea aud Uindu-rāya-suratrāna

V 19 to the end of line 41 Deva-Raya, who, seated on his ancestral thione in Vijayanagam, which has the Tungabhadra as its ditch, ruled the earth, made the grant of the villeres of Panda-mangalam, Tirunatür, Seranaibanda-peruma-natür and Sunepuha-natür to the god Rangenathe. The gift was made in the Saka year 1349, which is given by the chronogram dha alol a and which corresponded to the (cycho) year Playanga, on a Monday

¹ Less of

Read El

[[]Pred offe-E1]

Read Eni

[!] Read हासि,

⁸ Read ⁰पहारेण खद्श

n Read मुयी सूयी.

[&]quot; Pest फ्लान् माबित. es This line is written in Telogo-Kannada characters.

Bead पष्टि हसाबि.

Bead of s Read मू

the twelfth tiths of the bright fortnight in the month Kārttika, in the piesence of the god Virāpāksha on the bank of the river Tungabhadiā. The villages Pānda-mangalam, Tiiunālūr and Sēranaibenda-peiumā-nalūr are said to have been situated on the south bank of the river Kāvērī, in the Rājagambhīra valanādu, belonging to the Triśirāppalli rājya, and Sunaipuhanalūr in the Rājarāja valanādu of the same rājya, but situated on the northern bank of the Kāvērī.

Lines 41-74 In the Saka year 1350, Plavanga, on the auspicious occasion of the Utthanadvādašī in the bright half of the month Kārttika, the king Vīra-Pratāpa-deva-Rāya Mahārāya gave the following śāsana (order) for performing one avasara consisting of twelve harivānas of perpetual lamps, garlands and one festival every day to the god Ranganatha in the name of Narayanadčvi-auva the gift of the villages of Panda-mangalam, Tirunalur and Seranaibandaperumā-nalūr, yielding 1,403 kula-gadyānas, and Sunepuha-nalūr, yielding 420 kula-gadyānas, was made for the unga, ranga, etc., of the god Śii-Ranganātha, as an auxiliary to the gosahasra mahādāna made by the king on the auspicious occasion of Utthana-dvādašī in the presence of the god Vnupaksha on the bank of the river Tungabhadra Panda-mangalam, Tirunalur and Seranaibanda-peruma-nalur were in Amarada hobali of the Rajagambhīra valanādu in the Chirichrāpalli chāvadi, whereas Sunepuha-nalūr was situated in the Mēlamurī of the Mala nādu, a sub division of the Rājarāja valanādu in Vadagarai (northern bank of the Kavēri) These villages were to be enjoyed from the first tithi of the bright fortnight of the mouth Ashadha of the same year The king granted these villages with the following rights of enjoyment namely, the taxes on the lands under wet and dry cultivation, as also vān-payir and pun-payir, the taxes called thev āśal-, manai-pēru-kadamai, tarikkadamaı, māvadaı, maravadaı, kulavadaı, hal-āyam, tırıgaı-āyam, pēr-kkadamaı, tarıkhadamai. ālukunīpāttam, mahamai, kattīge-avasara, padai-kānīkkai, Ādi-Kārttīgai-pachchai and all other new and old taxes, all income in gold and paddy and the eight kinds of enjoyment, nidhi, nıkshēpa, etc

Vv 22-26 The usual admonitory and imprecatory verses Line 83 contains the words Srī-Virūpākska, the king's signature

No 9.-MOMIGATTI INSCRIPTION OF THE 49TH YEAR OF VIKRAMADITYA VI.

BY LIONEL D BARNLTT

Momigatti is a village in Dhārwār District, a few miles to the north-west of Dhārwār town, in lat 15° 30½ and long. 74° 59′, according to the Bombay Survey¹ The present inscription, now published for the first time, was found in the local temple of Kalamēšvara, on the left side of the image—An ink-impression was prepared for the late Di-Fleet, which is now in the British Museum, from it I have edited the text—The stone has a rounded top decorated with sculptures, namely, in the centre a linga, on the proper right of which is a priest standing facing it, while another upright figure stands to the proper left, all three being in a shrine, to the proper right of the priest, a cow and calf, to the right of the latter, a scimitar; in the opposite corner, a bull, above these, the sun (on proper right) and moon (on left). Below this is the inscribed area, in two compartments—the first of these, comprising lines 1-2, is 2 ft. 3½ in wide and 2½ in high, and the second, containing lines 3-30, is of the same width and 2 ft 9 in high.—The character is good Kanarese, of an upright rounded type that was beginning to come into use about the middle of the twelfth century. The height of the letters varies from ½ in to ¾ in. The jh (1 9) and ¾ (11, 19, 26) may be noted—The language is Old Kanarese, with two

¹ The "Meemeeguttee" of the Indian Atlas seems to be intended for Momigatti; but its position does not quite tally with that of the latter as given in the Survey

formal Sanskrit verses (Nos 1 and 5) The ancient \underline{l} has been changed to l in $k\bar{v}lam$ (1.14), $b\bar{e}lpa$ (1.16), aladavarggey= (1.27), $\bar{e}l$ - $k\bar{o}ti$ (1.28), and to r in $garddey[u^*]mam$ (1.22); it is falsely used for r in todald= (1.16) P is changed to h in $halli^\circ$ (II.19, 20), but elsewhere retained Three words are of some lexical interest, viz $ty\bar{a}ga$ -jaga-jhampi jhampalacharyya (1.9), on which see above, Vol XII, p. 251, and nrita (1.14), which is abstracted from the ordinary $s\bar{u}nrita$, and is parallel to anritika, "untruthful" in Asvaghosha's Buddha-charita, II. ii

The record, after referring itself in II. 2-4 to the reign of Tribhuvanamalla (Vikramāditya VI), introduces the Kādamba feudatory Jayakēsi [II], who is decorated with the characteristic titles of his dynasty, and his senior queen Mailala-dēvi (the daughter of Vikramāditya VI), as jointly reigning (II 4-13) On the historical points involved herein it suffices to refer the reader to Vol. XIV above, p 299 f Then follow verses in praise of Vāmašakti, a Śaiva divine, and Udayamma Gāvunda (II. 13-17), after which comes the formal statement of a gift of land and houses by the latter to the sanctuary presided over by Vāmašakti (II 17-24)

The date is given on il 17-18 as the cyclic year Krödhi, the 49th of the Chālukya Vikrama era, Ashādha suddha 5, Sunday This is irregular The given tithi was current at sunrise on Wednesday, 18 June, A.D. 1124, and ended about 9 h 16 m after mean sunrise 1

The only places mentioned are Kundür (1 19), Eranigereyahallı (1 19), Konnasagere (1 21), and the *tīrthas* (1. 25) Kundūr is the modern Narēndra, on which see above, Vol XIII, p 298

TEXT.2

[Metres vv 1, 5, Anushtubh, vv. 2-4, Kanda]

- Namas=tumga-ś[i*]raś-chumbi-chamdra-chāmara-chāravē [i*] trailōkya-nagar-ārambha-mūla-stambhāya Sa(śa)mbhavē || [1*]
- 2 Svastı samasta-bhuvan-āsraya Śrī-Prı(prı)thvī-vallabha mahārājādhırāja paramēśvara paramabhatt[ā]-
- 3 rakam Satyāśraya-kula-tilakam Chāluky-ābharanam śrima[t*]-Tribhuvanamalladēvara vijaya-rājyam=u-
- 4 ttaröttar-ābhivridhdhi-pravardhdhamānam=ā-chamdr-ārkka-tāram-baram saluttam-ire ||

 © Tat-pāda-padm-ōpajīvi || © ©
- 5 svastı samasta-bhuvana-samstüyamana Hara-Dharani-prasüta-Trılöchana-Kadambavamsa-mah-öda[ya]
- 6 Mahīdharēmdhra(dra)-sikhar-ābhyudayamāṇa-mahā-prachamda-mārtinihda mārttamda-kar-ātitīvra-nija-pratā[pa]-
- 7 vašikri(kri)ta-sakala-mahi-mamdalan=uttumga- simha-lāmohohhanam vānara-mahā-dhvajam permmatti-tūryya-nirgghōshanam
- 8 chaturā(ra) šīti-nagar-ādhishthit-āshtādas-āsvamēdha-dikshā-dikshita-kula-prastīta Himsvad-girimdra-rumdra-sikhara-
- 9 sthāpīta-mahā-saktī-prabhāvam tyāga-jaga-jhampi jhampal-āchāryya miššamka-Rāma śu(su)bhata-kanaka-nīkash-ōpala

I have to thank Mr R Sewell for his kindness in verifying my calculations.

From the ink-impression.

- 10 śaran-agata-vajra-prakara lok-arka-kalpa-druma samkranti-dhavala mūrtti-Nārāyana kirtti-mārttamda
- 11. mandahka-lalāta-patţa vaur-gharatta śu(su)bhata-tāja-śikhāmani Kādamba-chādāmau=īty-akhila-nām-āva-
- 12 lı-samā(ma)lamkritar=app.1 srīman-mahāmamdalīsvaiam Jayakêsi-dēvar siīmatpiriy-arasi Mailala-ma-
- 14 tt=ill-ennad=ikkut-irppare külam vasudhātalam-ellam bannısuvinegam Vāmašaktipamdita-dēvar || [2*] Nrita-vākjam vamdi-ja-
- 15 n-āsrīta-sura-taru Malla-Gavumdan=arra(gra)-tanūjam matīmantam Hara-bhaktam kshitiy-olag=Udayamma-Gavu-
- 16 dan-uttama-purusha || [3*] Sidil-unam ripu-nichayam todald(id)=edeyol bēlpa janake sum-taruv=annam kudut=e-
- 17 deyol Bānana vol Mrida-blinktam dharanītaladol=Udayama-Gavumdal | [4*]
 Svasti ši Imach-Chālukya-
- 18 Vikrama-varshada 49noya Krödhi-samvatsarad-Āshāda(dha) su(su)ddha 5 Ādityavāradamdu sriman-mahā-pa-
- 19 itanam Kundūra padinaruvar=ggāvumdugala Pañcha-matha-sthānada sannidhiyol= Eranigereyahalliy=Ā-
- 20 karıka(?)² Malla-Gävumdana magan=Udayama-Gāvumdam hallıyındam paduval= kal-pumyıkey=adayini mü-
- 21 dal=ondu muttar=pparala keyyuman=ür=umba Konnasagereya müdana kötiyalu nüru ka-
- 22 mma garddey[u*]mam devanm temkal=eradu maneya mvësanamumam Kalı-devasvāmıya sthān-āchā[ryya Vā]-
- 23 mašaktı-pandıtarggo kāl-garchchı dharā-pūrvvakam mādı sarvva-namašya(sya)sarvva-bādhā-parıhāram=[āgɪ]-
- 24 y=Udayama-Gāvumdamn=ā-chamdra-sthāyıy=āgı bitta dhanmma || Î dharmmamam pratipāli[si]-
- 25 davargge Gamge Väranäsı Kurukshëtra Prayāgey=emba punya-tīrttha-sthānamgalol sāsıra kavı[le]-
- 26 ya kodum kolagumam pañcha-ratnadol=kattısı vēda-pāragar=appa mahā-brāh-manargge dānam-geyda [pha]-
- 27 la Î dharmmaman-alıdavarggey=ā sās[ı*]ra kavıley[u*]man=ā vēda-pāragar=appa mahā-brāhmaṇa[ru]-
- 29 Sva-datt[ā*]m para-datt[ā*]m vā yam(yō) harētī(ta) vasumdharā[m*] shashtīr=vīrisha-shāsani⁸ vi=
- 30 shṭa(shṭhā)yām jāyatē krimi⁴ [5*]

The syllable ma is metrically superfluous 2 Apparently so, but the first ka may be read as ra or ga.

Boad varsha-sahasrans. 4 Read krimih.

TRANSLATION.

(Verse 1) Homage to Sambhu charming with the jak-tail fan which is the moon kissing his lofty head, the foundation-column for the construction of the city of the three worlds

(Innes 2-4) While the victorious reign of—hall —the refuge of the whole world, favourite of Fortune and Earth, great Emperor, supreme Lord, supreme Master, or mament of Satyāśraya's race, embellishment of the Chālukyas, king Tribhuvanamalla, was advancing in a course of successively increasing prosperity, (to endure) as long as moon, sun, and stars—

(Lines 4-13) While he who finds sustenance at his lotus-feet,—hul!—the Mahāmanda-lēśvara Jayakēsi-dēva, who is decorated with the whole series of titles of honom, to wit, "the noble serion of the Trilōchana-Kadamba lineage sprung from Hara and the Earth which is praised over the whole world, great august sun rising upon the peaks of the Lord of Mountains, fascinating the whole circle of the earth by peculial majesty exceedingly intense as the sun's riys, having for crest a stately hon, having a banner (bearing the device) of a great ape; who is (saluted) with the noise of permatti drums and (other) musical instruments, who is sprung from the race presiding over eighty-four cities and consecrated in the consecratory rites of eighteen horse-sacrifices, who has established the puissance of his might upon the massive summits of the Lord of Mountains, the Himavat, a phampalāchārya surpassing the world in bounty, a Rāma in interpidity, a touchstone for the gold of warriors, an adamant castle for seekers of protection, a unique tree of desire for the world, white (of fame) as the time of conjunction!, a Nārāyana incarnate, a sun of glory, a frontal fillet of feudatory princes, a grindstone to foes, a crest-jewel of warrior kings, a crest-gem of the Kādambas," and the School Queen Mailāla-mahā-dēvi, were reigning with enjoyment of pleasant conversations—

(Verse 2) If any, being hungry, should come and ask for food, Vāmašakti Pandita-dēva will gladly give to him rice without saying nay, so that the whole earth praises (him)

(Verse 3) Of Malla Gavunde, who is pleasant of speech, a celestral tree to panegyrists and dependents, the eldest son is Uday mma Gavunda, who is sage, devoted to Hara, a right noble man on earth

(Verse 4) Like a thunderbolt on occasions when hosts of foes assail (him), like a celestral tree on occasions when he makes gifts to suitors, devoted to Mrida like Bāna, is Udayama Gāvunda on earth

(Lines 17-24) Hail! On Sunday, the 5th day of the bright fortnight of Āshādha in the cyclic year Krōdhi, the 49th (year) of the Chālukya-Vikrama era, in the piesence of the Sixteen Gāvundus of the gieat city of Kundūr (and) the establishment of the Five Mathas, Udayama Gāvunda, son of the Ākarika(?) Milla Gāvunda of Eianigereyahalli, having laved the feet of Vāmašakti Pandita, Āchārja of the establishment of Kali-dēva-svāmi, with pouring of water granted for as long as the moon shall endure a pious foundation on sarvanamasya tenure, immune from all conflicting claims, (comprising) a gravel-field of one mattar west of the village (and) east of the stone-heap, and a paddy-field of one hundred kamma at the eastern corner of the Konnasagere used by the town, and two dwelling-houses south of (the

(Lines 24-28 a prose formula of the usual type)

(Verse 5 a common Sanskrit verse)

¹ Cf dwāļīchara-dhavaļam, above, Vol MII, p 269. The phrase probably refers to the Dīpāvalī or Diwāļī festival, from Asvina kr 14 to Kārttika su 2

No 10—ARASIBIDI INSCRIPTION OF THE REIGN OF SOMESVARA I SAKA 969 By Lionel D Barnett.

Arasībīdi, the ancient Vikramapura, is a decayed village in the Hungund tāluka of Bijāpūr District, situate in lat. 15° 54′ and long 75° 58′ (cf. Ind. Ant., Vol. 30, p. 260). Its name is written as Arsubidda on the Indian Atlas sheet 58 and the Hyderabad Survey sheet 30. In the local temple known as the Sūlegudi was found a broken tablet containing the present record, an ink-impression was prepared for the late Dr. Fleet, which is now in the British Museum, and from it I now edit the text

The upper part of the stone is decorated with some sculpture. Immediately over the inscribed area, on a plinth, is a figure of a squatting Jina, with a cow and sucking calf on his proper left, between two columns, and above this is a series of architectural divisions culminating in a vase-shaped fikhara. The inscribed area below is about 2 ft $2\frac{1}{4}$ in broad and 2 ft 2 in. high, but a line or two at the bottom is lost.—The character is a fair Kanarese of the period, the letters vary from $\frac{1}{2}$ in. to $\frac{1}{4}$ in. in height. The ri of $rishiyargga[m^*]$ in 1 8 is denoted

by a modified n with a tail attached —The language is Old Kanarese prose, except for the

Sanskrit verse-formula of which the first two letters appear on 1 22 The archaic \underline{l} is changed to l, except in eppattara (1 12, for $\bar{e}\underline{l}p^{\circ}$, through $\bar{e}rpp^{\circ}$) The word sarugi (1 7) is of some lexical interest

The record, after referring itself to the reign of Trailokyamalla-dēva, ie Somēśvara I (ll. 1-4), relates that Akkā-dēvi, while in the camp around the fortress of Gōkāge, made a grant of lands to the Gonada-bedangi Jain temple at Vikramapura, for the maintenance of the establishment and of the attached friars and nuns, among whom special mention is made of Nāgasēna Pandita of the Hogari Gachchha of the Varasēna Gaṇa of the Mūla Sangha (ll. 4-9) The rest of the inscription is taken up with the details of the endowment, among these we learn that some of the land was purchased from Dadigarasa (l 17), who was very possibly a member of the Bappura family which has left a record of its history in the Sūdi inscription no. K. (above, Vol. XV, p 106, cf Ind Ant, Vol XXX, p 266)

The date is given on 11 9-11 as Saka 969, the cyclic year Sarvajit, the new-moon of Chaitra, a Sunday, an eclipse of the sun These details are perfectly regular. The given titus corresponded to Sunday, 29 March, A D 1047, on which day it ended 6 h 14 m after mean sunrise. On the same day, at 5 h 51 m after mean sunrise, there was an eclipse of the sun (Indian Calendar, p 121)

The following place names are mentioned Gōkāge (1 6), Vikramapura (11 6, 13), the Kisukādu Seventy (11 11-12), Gānada Hālūr (1 12), Muruvadina Pālu (1 13), Rāyagatte (1 15), the tank of Kappadi (1 18), Benares (1 19) Gōkāge is the modern Gōkāk, the headquarters of the Gōkāk tāluka, in Belgaum District, situate in 16° 10' lat and 74° 49' long. Vikramapura is Arasībīdi (see above) On Kisukādu see Ind Ant., Vol XXX, p 259 li Gānada Hālūr is given on the Indian Atlas as "Ganuduhal," about 3 miles SE of Arasībīdi in lat. 15° 52½' and long. 76° 1' (cf 1611, p 261) The other local names I cannot trace

² This title is evidently derived from Akkā dēvi's title gunada bedangiyar, and shows that the temple was under her especial patronage

This name occurs also, in the older form Pogari, in Ind Ant, Vol XIX, p 272, and Ep Carn VII 1. Sk 124

¹ See Dyn Kan Distr, pp 435, 439 Dr Fleet understood the words sutterdda to mean "besieging," which is possible, but not necessary

⁴ I have to thank Mr R Sewell for his kindness in verifying my calculations

TEXT.

1 Svastı samasta-bhuvan-āsraya Śrī-Prithvī-vallabha mahārājādhirāja

paramēšvara-paramabhattāraka Satyāśraya-kula-tilaka Chāluky-ābharaņa śrīma[t*]-Trailōkyama-

2 ramabnattaraka Salyasia,
4 ram-baram saluttam-ıre [i*] Svastı arı-nrī(nrı)pa-makuta-ghatıta²-charap-āravī-(vı)mdeyar=Ggamgā-snāna-

pavitreyar=ddin-ānātha-chi(chi)ntāmaṇigal=ēka-vākje[ya*]r=ggunada bedamgijer=appa śrīmad-A-

6 kkā-dēvi[ya*]r Gōkāgeya kōteya vu(su)tt-ırdda bidinalu Vıkramapurada Gonada-bedamgiya

7 J_{In-ālayakke} khanda-sphutīta-sudhā-kai mmakkam gandha-dhūpa-dīpakkam sarugiga[m] Mūla-samga(gha)-

8 Va[ra*]sēna-gaṇada Hogariya gachchhada Nāgasēna-panditargga[m*] all=irppa rishiyargga[m*] ajjiya-

9 rgga[m*] āhāra-dānakkam ajjiyara kappadak[k*]am kuduva bhūmi Sa(śa)kavarsha 969 neya

10 Sarvvajit-samvatsarada Chaim(chai)trad=amāsye Ādityavāradamdina sūryya-gra-

11 haṇa-nımıttam dhārā-pūrvvakam mādı nagaradh(d)±anubhavaṇe(ne?) mukhyam= āgı Kısu-

12 kād=eppattara balıya sarvva-namasyam=āgı bitta bādam Gānada Hālūr=omdu

13 Vıkramapurada yisanyada des[e*]y[ım*] tomtam mattar=omdu ürim temka Muruvadına pā-

14 la naırıtyada deseyim pandıta-Nāgadēvamge sarvva-namasya martta³ pamnneradu allım temka

15 parekāra Kētōjamge sarvva-namæsya mattar≖irppatta-nālku ūrīm badaga Rāyagaṭteyīm

16 mūda pagekāra Kētōjamge tōmta mattar≖omdu allım paduva kalkutıga Sūrōjamge sa-

17 rbba-namasyam mattaru panneradu tōmṭa mattar=omdu Dadigarasana kayyalu māru-goṇdu dēvargge kot[ta]

18 bhūmi Kappadiya kereyim temka manneya-v
[o]ladalu sarvva-namasya mattaru 50 [$\|^{\bullet}$]

19 I(i) dharmmamam sva-dharmmadım rakshıshı(sı)davar Väranäsıyalu ondu köti kavileyu-

20 mam vēda-pālanar=appa br[ā*]hmanarīge koṭṭa pha[la]mam paḍevar I(1) dharmmaman=alīdava-

21 r ā sthānadol=anītu kavīleyuman=anīrpe(tu) brāhmaņar[umam]
22 sā* || Sāmā[nyō=yam]

¹ From the ink-impression

The engraver has written ghata, and added it in smaller script under the line.

Bead mattar.

TRANSLATION.

(Lines 1-4) While the victorious reign of—hail l—the asylum of the whole world, favourite of Fortune and Earth, great Emperor, supreme Lord, supreme Master, ornament of Satyaśraya's race, embellishment of the Chālukyas, king Trailōkyamalla, was advancing in a course of successively increasing prosperity, (to endure) as long as moon, sun, and stars —

(Innes 4-9.) Hail is she whose foot-lotuses are touched by the diadems of opponent kings, who is pure through bathing in the Ganges, a wishing-jewel to the distressed and masterless, uniform in speech, adorned with virtues, Akkā-dēvi, in the camp around the fortress of Gōkāge, granted land for (the expenses of) plastering the broken and burst (masonry) of the Goṇada-bedangi Jina temple at Vikramapura, and for (the supply of) scent, incense, and lamps, and for sarugi, and for the maintenance of Nāgasēna Pandita, (a friar) of the Hogariya Gachchha of the Varasēna Gana of the Mūla Sangha, and of the firars and nuns residing there and for the cloaks of the nuns—

(Lines 9-18) The lands given (by her) to the god, which she purchased of Dadigarasa, on Sunday, the new-moon day of Chaitra in the cyclic year Servvajit, the 969th (year) of the Saka era, on the occasion of an eclipse of the sun, with the performance of pouring of water, were · Gāṇada Hālūr, a town forming part of the Kisukādu Seventy, granted on sarva-namasya tenure, in its entirety,² with usufruct of the citizens (?), one mattar of garden on the north-east of Vikramapura, south of the town, on the south-west of the Muruvadu Waste-land, twelve mattar on sarva-namasya tenure for Paṇdita Nāgadēva; to the south thereof, twenty-four mattar on sarva-namasya tenure for the drummer Kētōja; north of the town, east of Rāyagatṭe, one mattar of garden for the drummer Kētōja; on the west thereof twelve mattar on sarva-namasya tenure (and) one mattar of garden for the stone-mason Sūrōja, (furthermore,) 50 mattar on sarva-namasya tenure in the estate of the seigniory south of the Kappadi tank.

(Lines 19-21 a prose formula of the usual type.)

(Lane 22 · the beginning of a common Sanskrit verse.)

No 11—THE BRAHMA-SIDDHANTA OF BRAHMAGUPTA (A.D 628)

Working Tables for computation of ancient dates by the true, or apparent, motions of sun and moon

BY ROBERT SCWELL (ICS, RETIRED)

A continuation of the author's "Indian Chronography"

311. In para 257 of my article on "The true longitude of the sun in Hindu astronomy, the Siddhānta-Sirōmani" (above, Vol. XIV, p 241), and again in a later article on The Siddhānta-Sirōmani, § 2711(Vol. XV, pp 159 sqq), I discussed the question of the values assigned in the seventh century A.D. by Brahmagupta to the twenty-four base-sines of angles in the quadrant, and expressed the opinion that when, but not until, definite assurance was obtainable that the values stated in the only available copies of the Brahma-Siddhānta were really those fixed by its author, working Tables framed according to its postulates might safely be prepared for the computation of ancient dates.

¹ This term occurs elsewhere, e g in Ep. Carn. II (Sravana Belgola), No 56, p 52.

² Literally, "one,"

One MS, copy in the India Office, London, and Benares printed edition

In response to my appeal Mi G R Kaje (Cuiator, Board of Education, Simla) has been kind enough to assist me. He tells me that there can be no doubt but that the values given for the several bise-sines in the edition of the Brahma-Siddhanta, printed and published in Benares, are correct, and that Bi thinagupta certainly made his cilculations with a radius (sin 90°) of 3270′, discarding that of 3438′, which seemingly had been in use in India since the time of the Giceks ¹ Mi Kaje went fully into the subject in a very learned article, "Ancient Hindu Spherical Astronomy" published in the Journal of the Asiatic Society of Bengal in 1919 (New Series, Vol. XV, No. 3), which contains (Table 8, p. 187) a list of the sine values as determined by the authors of the Paulisa-, Arya-, and Brahma-Siddhāntas. He points out that, when properly applied, the equations of the sun's and moon's centres obtained from the sine-values of Biahmagupta agree with those derived from the values assigned by the other authorities.

Accordingly I have prepared the Table of Brahmagupta's sines and resulting base-equations of the sun's centre (Table LXXXIX below), and a comparison between these and the equations of the Siddhānta-Širōmani (Table XLVII above, Vol. XIV, col. 9, and Prof. Jacobi's Tables, XXIVB above Vol. 1) proves that there is only a very trifling difference whether we use Brahmagupta's, or the older—and later—sine-values—By the Siddhānta-Širōmani, vith radius 3438', the sun's greatest equation that of 90°, =2° 10' 31", exact—By the Brahma-Siddhānta, with radius 3270', it=2° 10 31" 19—We may therefore safely use Table LXXXIX (below)² and Table LIX (above, Vol. XV) for the sun's and moon's equations by the Brahma-Siddhānta

312 The Brahma-Siddhānta was composed by Brahmagupta in A D 628 and is said to have been extensively used in some parts of India, its principal rival being the Ārya-Siddhānta of Ārya-bhata, known in later years as the Laghu-Ārya to distinguish it from the Mahā-Ārya-Sidhhānta of the tenth century. This last, called also the Second Ārya-Siddhānta, seems to have had no great following. The Rājamrigānha, an astronomical work of A D 1042 introduced, according to the information available to the late Sankara Bālkiishna Dikshit, some important changes into the system of Brahmagupta, but unfortunately no complete copy of it has yet been obtained, and the necessary particulars are not to be found in those fragments which have come to light. It is not possible therefore to frame any accurate Tables for calculation by the Rājamrigānha, and we must rest satisfied with the assurance of Mr S B Dikshitā that the Siddhānta-Śirōmani is the same as the Rājamrigānha in the matter of calculation of a paāchāng. Tables for use by the former have already been published by me, comprising the period A D 1100-1750 (above, Vol. XV)

All the authorities appear to arrive at similar or almost similar results in their computation of the lunar tithis, when worked by the true of apparent motions of sun and moon, but, since they differ in their estimate of the position of the sun's apsis at a given date, they necessarily differ somewhat in their estimate of the moment in each year when the true sun reaches long 0°, the moment, that is, of "true Mēsha-samkrānti" This difference leads to differences in the lengths of the true solar months, and consequently to differences in the intercalation and suppression of true lunar months, which differences, again, occasionally cause differences of a whole lunar month in the beginning of the luni-solar year and differences in the names of some of the lunar months therein

of 3438', which is correct With $\pi=3$ 14159 the radius=3437 74967 Brahmagupta's radius 3270 implies a ratio $\pi=3$ 303 The ratio according to Archimedes (B C 250) was 3 14286 The ratio 1 $\sqrt{10}$ mentioned in the

² Or Table XLVII (above, Vol XIV), col 9, also Professor Jacchi's Tables XXIVA, XXIVB (Vol. 4).

But we are now better able to deal with these matters than before Dates can be easily computed by the true motions of sun and moon according to the Sūrya-Siddhānta for the whole historical period from A D 300 to 1900 (Indian Calendar)¹, according to the Arya-Siddhānta from A D. 900 downwards (above, Vol XVI), according to the Brahma-Siddhānta (the present paper) from A D 600 to 1200, and according to the Siddhānta-Šīrōmani, Rājamrigānka and other works of the time of Bhāskarāchārya from A D 1100 to 1750 (above, Vol XV), these periods comprising the outside limits of use.

And, as regards computation by the mean motions of sun and moon, which system is believed to have been in universal use down to about AD 1100, and perhaps in some places to a considerably later date, we now have Tables for work by the Arya-Siddhānta from AD 500 to 1400 (above, Vol XVII), while I hope to be able to publish here after a set of similar Tables for the Brahma-Siddhānta, also embracing the outside period of use

All these Tables are framed on the same system, so as to enable calculation to be made as easily and rapidly as possible

Elements of the Brahma-Siddhanta

- 313 (1) The length of the mean solar sidereal year is 365 2584375 days, or 365d 6h 12m 9s The Siddhanta-Śiroman adhered to this estimate
- (11) Brahmagupta's sines of angles of the quadrant differ from those of the other authorities. His sine of 90°, the radius, = 3270′ instead of 3438′. His sine of 3° 45′ = 214′ instead of 225′. The 24 base-sines are given in Table LXXXIX below.
- (111) The equations, however, which are based on these sine-values are practically the same as those of the Siddhānta-Šīrōmanı (compare Table XLVII above, Vol XIV, col 9, and Table LXXXIX below) Tables LV, LVI, LIX (above, Vol XV) may be therefore used as well for the Brahma-Siddhānta as for the Siddhānta-Šīrōmanı
- (1v) The greatest equation of the sun's centre, that of 90°, 1s, in 10,000ths of the circle, 60 425925 The greatest equation of the moon's centre is, in similar measurement, 139 858101852 The sum of the two is 200 284027.
- (v) The epoch of the Kaliyuga era was mean sunrise, taken as 6 Am, on Friday, 18 February, BC 3102, that moment being 0^h 0^m 0^s Lankā time. This was the moment of mean Mēsha-samkrānti, when the mean sun's centre reached long. 0° Time Mēsha-samkrānti, when the true sun's centre reached long 0°, occurred on Tuesday, 15 February, BC. 3102, at 19^h 52^m 21^s 5 after mean sunrise at Lankā
- (vi) The circumference of the sun's epicycle is 13° 40′, that of the moon 31° 46′ The epicycles are not contracted at any point. In this the Siddhānta-Śirōmani concurs (Jacobi, Vol I above, p 441)
- (vii) The line of apsides of the sun's orbit has a constant forward shift, the perigee-point (on the longitude of which my calculations are based) moving 0" 144 per ann, or 14" 4 in a century According to the Siddhānta-Širōmani the movement is more rapid, amounting to 1" 044 per ann (Jacobi, op. cit).
- (viii) The sodhya, or time-interval between true and mean Mēsha-samkrāntis, was, in K.Y 0 or at the epoch of the Kaliyuga era, according to Dr Schram, 2d 171971 or 2d 4h 7m 38 5 With this the Siddhānta-Širōmani agrees But in later years the śōdhya, as postulated by the two authorities, differs in value owing to the difference between the two Siddhāntas in their estimate of the movement of the sun's apsis (See vii above)

¹ Also by the 1ndian Chronology of Dowan Bahadur L D Swamikannu Pillai, MA, whose Tables are framed on a different system

² Indian Chronography, § 39 D, p 16

- (ix) The position of the sun's apsis (perigee) at K.Y 0, the epoch of the Kaliyuga, was 257° 45′ 36″,¹ and his mean anomaly was 102° 14′ 24″, or, in 10,000ths of the circle, 284 0
- (x) The position of the moon's apsis (perigee) at the same moment was 305° 29′ 46″ 2; and her mean anom. was 54° 30′ 14″, or, in 1,000ths of circle, 151 399691358
- (xi) The sun's mean velocity (he is treated as a planet) and the length of the mean solar year being the same both by the Brahma-Siddhānta and the Siddhānta-Sirōmani, his mean long, at any moment must be the same by both, and so also the length of the mean solar month. But the two authorities are not in exact accord as to his true long and the length of the true solar month

Shift of sun's apsis The sodhya Length of true solar year

314 The length of the mean solar year being the same, viz 365d Gh 12m 9s, by both the Brahma-Siddhānta and the Siddhānta-Śirōman, the first portion of § 273 above (Vol XV) and accompanying Table A apply as well to the former as to the latter. But for the latter portion that section and its Table B, the following must be substituted when dealing with the Brahma-Siddhānta, the two authorities not being in accord as concerns the matter in question

315 As stated above, the sun's perigee-point according to the Brahma-Siddhānta advances annually 0" 144 along the ecliptic, and in consequence of this shift the true sun's velocity at long 0" is a little greater every year than the year before, ie the true sun reaches long. 0°, or the moment of true Mësha-samkrānti occurs, a little earlier each year. In every year there is a slight increase in the distance and time-difference (our \$\ilde{v}dhya\$) between the mean and true suns at that point of the orbit. Di Schram has carefully calculated the value of this \$\ilde{v}dhya\$ at the moment of true Mēsha-samkrānti at the beginning of several millenniums, and his results for the period embraced in my general working Table LXXXII are stated in the following Table B

TABLE B

VALUE OF SÖDHYA BY THE BRAHMA-SIDDHANTA

KY year	A.D.		LUB OF ÉÖDHYA AT G OF CENTURIPS
expired	A.D.	days and decimals.	dhm s
8700	599-600	2 1729145	2 4 8 59 8128
8800	699-700	2 1729400	2 4 9 20160
8900	799 800	2 1729655	2 4 9 4 2192
4000	899 900	2 1729910	2 4 9 64224
4100	999 1000	2 1730165	2 4 9 8 6256
4200	1099-1100	2 1730420	2 4 9 10 8288
4800	1199 1200	2 1730675	2 4 9 13 0320

One result of this shift of apsis is that, by the Brahma-Siddhanta, the true sun reaches the 0° point of long. 0° 022032 earlier every year than the year before, and in consequence the length of the true solar year, or the time needed for the true sun to travel from true Měsha-samkrantí

I Jacobi, above, Vol I, p 442, § 83, where he gives the place of the apsis (apogee) as 77° 45′ 36°. See also E.

² Moon's apogee given by Jacobi as 125° 29' 46".

in one year to true Mēsha-samkrānti in the next, is (365d 6h 12m 93-03022032) 365d 6h 12m 83977968 [The exact moment of true Mēsha-samkrānti in each year from A D 599 to 1200 is given in the general Table LXXXII below, cols 13-17. It can be tested by the use of Table A, § 273, referred to above, and Table B here given, using the "longer rule" stated in § 273 or in Indian Chronography, p 61]

Another result of the shift is that the sun's mean anomaly, or the mean sun's distance from the sun's perigee-point, decreases every year by 0°144 or 14°4 in a century Reckoning in 1,000ths of circle for valuation of our c (sun's mean anom) in the Tables, 14°4 = 001 The value of c therefore decreases 00i in a century, and this decrease has to be taken into account from K.Y. 0, the epoch of the Kaliyuga This has been done in the preparation of the Tables which follow

The increase of a, b, c, in centuries, years, days and fractions of days.

316 Following on what has been stated, we learn that Tables LIVA and B, which deal with the periodical increases of a, b and c according to the Siddhānta-Širōmani, may safely be used for calculation by the Brahma-Siddhānta, with the one reservation as to the increase of c in a century a being the distance of mean moon from mean sun, and the longitude of the mean sun not being affected by the shift of apsis, but only his mean anom, or distance from the point of the apsis, it appears that the rate of increase of a must be same by both authorities.

As to the rate of increase of c it is, by the Siddhānta-Śirōmani, centennially less by 0 0805 (§ 273 above), and this was taken into account in the preparation of the heading of Table LIVA, where a footnote is appended shewing what the rate of increase would be per century if no such deduction had been made. This rate is, in thousandths of a circle, 997 690008075 in a century of 36525 days, and 0 427795618 in a century of 36526 days. By the Brahma-Siddhānta, the centennial decrease in the sun's mean anomaly being 0 01, the amount of increase of c per century is, for a century of 36525 days, 997 678896964, and for a century of 36526 days is 0 416684507. The difference between the two authorities in shorter periods may be ignored except in some extraordinarily close case. If it is ever needed, the increase in c in one year may be reduced by 0 0001 from the Table quantity

Otherwise Tables LIVA and B stand good for calculations by the Brahma-Siddhanta.

The values of a, b, c at the beginning of KY 3700

- 317 The general Table LXXXII below begins from the beginning of KY 3700 expired. Table LXXXVI states the value of a, b, c at that moment, and at the similar moment at the beginning of subsequent centuries. It is necessary therefore to explain how these figures were calculated.
- (1) The value of a (distance of mean moon from mean sun) in KY 3700. According to Hindu astronomers mean moon and mean sun were in conjunction at the moment of mean Meshasamkrant in K.Y. 0, the epoch of the Kaliyaga, or, in other words, at that moment a=0. In the 37 succeeding centuries there were 32 common and 5 defective centuries. Taking the century values of a given in the heading of Table LIVA and multiplying for 32 common and 5 defective centuries, we arrive at the figure 6567 108945284 as the value of a at the beginning of the 37th century KY., whole revolutions of 10,000 each being omitted. From this figure has to be deducted,—according to the working system of the Indian Calendar, which follows Largetean and Jacobi,—the sum of the greatest equations of sun and moon, viz 200 284027 (above § 313, iv). This gives us the value of a at the beginning of KY 3700 (expired) as 6366 824917506.
- 1 Professor Jacobi differs by about 17 units He gives the figure 63840 (Vol XI alore, p 167, Table (IXA) I can give no explanation of the reason for this, and can only state fully, as in the text, my bases of calculation.

Now this value stands for mean sunrise of Sunday, 22 March, AD 599, 1c. for the sunrise succeeding the moment of occurrence of mean Mishi-simkianti in KY 3700, but in all my Tables the calculation is for mean sunrise on the actual day of that occurrence, and we have therefore to deduct one day's value of a (112 333 631985412-Table LIVA above) from the This done, we have, for mean sumise on Saturday, a = 6028 192932094

- (n) The value of b (moon's mean anom) at the same moment. At the epoch of the Kaliyaga the moon's mean anom was, as stated above (\$ 313 x), in 1,000ths of a circle 151 399691358 Using the century figures of b in the heading of Table LIVA, and multiplying for 32 common and 5 defective centuries, it is found that, excluding whole revolutions of 1,000 each, the result is 604 144838202 Adding the value of b at KY 0, as above, we have at beginning of K.Y 3700, for the value of b, 755 511529560 1 But this (see about, t) was its value at mean sunrise on Sunday, 22 March, A D 599 Deducting one day's value of b (36 291649786) the fixture for mean sunrise on Situiday, 21 March, amounts to 719 252579771
- (111) The value of c (the sun's mean anom) at the same moment The correct merease of c by the Brahma-Siddhanta in centuries of 36525 and 36526 days his been given above in the Multiplying those quantities for 32 common and 5 defective centuries, and latter part of § 316 discarding whole revolutions of 1,000 each, we arrive at the increase, after 37 centuries, of 1728389044 To this has to be added the value of at KY 0 (abore, § 313, 17), 112 254 0 The value of c, therefore, at mean sunrise of Sunday 22 Much, AD 500, was 285 7285501142 Deducting the c for one day (2737787543) we have finally, for mean summe on Saturday. 21 March, c=282 990601501

The entries, therefore, for the aforesaid Saturday of KY 3700 in Table LXXXVI below are

> a = 6028 1929b = 7192529c = 2829906

The rest of that Table follows by addition of the proper century values

Duration of true solar months

318 It has been mentioned above (§ 313, x_i) that, while the length of the mean solar month must be the same both by the Brahma-Siddhanta and the Siddhanta-Širomani, the lengths of the true solar months according to the two authorities differ because of their different estimate of the shift of the sun's apsis Thus in KY 4000, the middle year of my general Table LXXXII below, the sun's perigee-point according to the Siddhanta-Širomam was at long 258° 55' 12", while by the Brahma-Siddhanta it was at long 257' 55' 12' Hence the velocity of the true sun (he is always considered as a planet) at the several true solar samkranfis, when the true sun's centre enters the several signs, is not the same by the two authorities quoted And this has necessitated the preparation of a new Table (LXXXIII.1 below), giving the lengths of the true solar months and increase of a, b, c therein individually and collectively according to the Bruhma-Siddhanta

There being in KY 4900 a difference of only 4' 48' between the positions of the sun's perigee, as estimated by the Brahma-Siddhanta and by the First Arya-Siddhanta, the former placing it at 257° 55' 12" and the latter at 258°, it was considered sufficiently safe to use Table XLIX (above, Vol XIV) for the true sun's velocity at different points of his orbit in hours and minutes, and Table L-A for seconds His true long at each samkrants was computed from his known mern longitude + the equation of the centre, which was calculated in each case

¹ Professor Jacobi's figure for this is 758 1, in my notation, against my 755 5

This agrees with Professor Jacobi's fixture, which, measured from per geo and in my notation, is 2857.

Thus was obtained the length of each month in days, hours, etc. For the increase of a, b, c during the periods so determined Tables LIVA and B, which are applicable to the Brahma-Siddhānta as well as to the Siddhānta-Sirōman, were used.

Note on work for the nakshatra

319. In our method of work s = the true sun's longitude and <math>t = the tithi-index (which shews the true moon's distance from the true sun) at the given moment s + t = the nakshatra-index n, which gives the true moon's place in the heavens, or her apparent longitude. The value of t is ascertained by the ordinary calculation for a date. The value of s has to be found.

By the Arya-Siddhānta the formula for finding s, c being the sun's mean anom, at the given moment, is $s = (c \times 10) + 7226$ —eqn. c, where the factor 7226, which represents in 10,000ths of circle the long of sun's perigee plus the sun's greatest equation, is a constant 1

By the Sūrya-Sıddhūnta, as exemplified in the Indian Calendar Tables, the numerical factor is not 7226, but varies in the period A.D 900 to 1900 from 7206 5077 to 7207 4035 being fixed for rough work at 7207. The variation is due to the postulated shift of the sun's perigee-point.

By the Siddhanta-Siromani there is, for the same reason, a variation in the numerical factor, viz. from 7252 6466 in A.D. 900 to 7259.0910 in A.D. 1700,—roughly from 7253 to 7259.

By the Brahma-Siddhanta the numerical factor varies from $7224\,5\bar{3}7\bar{0}$ in A D. 600 to $7225\,2\bar{0}3\bar{7}$ in A D. 1200 (the limits of the general Table LXXXII below) For rough work therefore by this authority the formula is $s=(c\times 10)+7225-eqn$

For more accurate work the value of c should be calculated (by the Tables) with decimals and instead of multiplying c by 10 its value should be changed from thousandths of circle (as in the Table-result) to ten thousandths by moving the decimal point one place to the rights; the value of eqn c can be obtained from Table LVI with great accuracy, land the numerical factor can be taken from the following summary.

K.Y century.	A D century	Exact factor in formula	Roughly.
8700	599 600	7224-5870	}
8800	699-700	7224-6481	
3900	799-800	7224 7592	
4000	899 900	7224-8703	7225
4100	999-1000	7224 9814	
4200	1099-1100	7225-0925	
4800	1199-1200	7225 2087	Ų

Examples.

It is not necessary to give a number of examples of work by the present Tables The system of calculation being exactly the same as that of the *Indian Calendar* and throughout the resent series of articles, the examples already published for computation by other authorities

2 Whole revolutions are not necessary for present purposes, and in our system when a=10,000 a whole synodic

revolution of the mean moon has been completed

¹ See Indian Culendar, § 156 p 97, article on the Siddhanta-Śiromani, above, Vol XV, § 273, Note on work for the nakshatra ", article on the First Arya-Śiddhanta, Vol XV above, § 302, and the several examples given in those papers

will suffice, the proper Tables being used, for work by the Brahma-Siddhanta. These Tables are specified in the following pages.

Examples have been given in all my foregoing papers, but perhaps the fullest series is to be found in the article on the First Ārya-Siddhanta (above, Vol XVI).

Tables for calculation by the Brahma-Siddhanta

The system of work for computation of an Indian date will be readily understood by perusal of examples 2 to 11 appended to my paper (above, Vol XVI) on the First Arya-Suddhanta, but the Tables used are of course not all the same The following list shews how accurate results by the Brahma-Siddhanta are to be obtained in calculation by the movements of true sun and trne moon

Table LXXXII below is the general working Table for the Brahma-Siddhanta for the period A D 599 to 1200 (K Y. 3700 to 4300 expired).

For names of months and of nakshatras in different parts of India, see Table LXII above (Vol XVI, "The First Arya-Siddhanta").

For collective duration of mean lunar months see Table LXIIIA of the same article, or Table III, Part I, Indian Calendar

Table LXXXIIIA below gives, by the Brahma-Siddhanta, the length of the true solar months and their collective duration, with the corresponding increases of a, b, c

Table LXXXIIIB states the exact value of c and of "equation c" at the several true samkrantis, or moments of the true sun's centre reaching the several signs

Table LXXXIIIC shews the value of c and of "equation c" at the beginning of each century of the Kahyuga

For the increase of a, b, c respectively in defective and common centuries, and in common years and Leap-years, see Table LIVA, heading, but note that by the Brahma-Siddhanta the increase of c in a defective century of 36525 days is 997 678896964 and in a common century of 36526 days is 0416684507 Tables LIVA and B contain the necessary figures for days, hours, minutes and seconds

Table LXXXIV gives the values of "equation h," and Table LXXXV those of "equation c," for easy calculation by whole numbers, corresponding respectively to Tables VI and VII of the "Indian C.lendar," which stand for the Sūrya-Siddhānta

For the more detailed values of "equation b" and "equation c" of moon and sun use Tubles LV and LVI above, Vol XV, as framed for the Siddhauta-Siromani

For the indices of tithis (t), karanas, yogas (y) and nakshatras (n) see Table VIII, "Indian Calendar," or Table LXVIII (above, Vol XVI, "The First Arya-Siddhanta")

For serial numbers of days of a year reckoned from January 1st use Table IX, "Indian Calendar," or Table LXIX (above, Vol XVI, "The First Arya-Siddhan'a")

For conversion of tithi-indices and tithi-parts into time Table X, "Indian Calendar," is to be used, or Table LXX (above, Vol XVI, "The First Arya-Siddhanta")

For finding the week-day according to the European Calendar for any century from A D. 0 to 2300 see Table LXXI (above, Vol XIV, "The First Arya-Siddhanta"), or Tables XLIA and B (pp 176, 177, "Indian Chronography")

Table LXXXVI gives the values of a, b, c at the beginning of each century of the Kahyuga by the Brohma-Siddhanta

Table LXXXVII gives the same for odd years of those centuries

Table LXXXVIII states the daily sunrise values of a, b, c for a month previous to the day of Meeha-samkranti

Table LXXXIX sets forth the 24 base-sines of angles of the quadrant according to Brahmagupta, and the corresponding equations of the sun s centre

TABLE LXXXII

CONSTRUCTION OF TABLE

The Table is constructed on the lines of Table I of the Indian Calendar and is to be used in the same way The columns are numbered similarly.

- Col 7. The satiratsura-name,—ie the name of the Jovian cycle—, of the year is given as determined by my previous calculations (above, Vol XIII Table XLII) Entires in it.ilics point to cases where this samuatsura-name differs from that given to the same year by Sürya-Siddhānta reckoning.
- Col 8. Months noted in 10man characters are intercalated (adhika) lunar months Those in italics are suppressed (kshaya) months
- Cols 13, 19. Figures in brackets give the serial number of the day [measured from January 1st.
- Col 23 a = distance, at mean sunrise, of mean moon from mean sun, or phase of moon stated in 10,000ths of circle, and reduced by the sum of the greatest equations of sun and moon so that calculation of the equations of b and c may always be additive.
- Col. 24 b=mean anomaly of moon or mean moon's distance from perigee-point of apsis stated in 1,000ths of circle
- Col. 25 c=mean anomaly of sun or mean sun's distance from perigee, stated in 1,000ths of circle.

Remarks a tar end

A.D 629-630, rols. 19, 20 A very close case The moment of true new moon was less than half a minute after mean sunrise at Lanka on Wednesday, 1st March | And the first withla tithe of the year ended after mean sunrise on Thursday, 2nd March, which was therefore by rule the first civil day of the lumi-solar year. If new moon had taken place more than half a minute earlier the first civil day of the year, "Chaitia sukla 1," would have been 1st March "

A D 968-69, col 8 At the Kumbha samkrānti the true moon was waning. The moment of the next, the Mina, samkrānti occurred about 2 minutes after the moment of true new moon, so that the true moon was waxing at the Mina samkrānti Hence the lunar month Phälguna was intercalated. According to the 19-year sequence we should have expected an intercalation of the lunar month Chaitia next following. The sequence shows similar irregularities when examined by other authorities, but only very rarely

A.D 974-75, cols 19, 20 Close case The 1st true new moon after the Mina samhia.i/2 occurred 3 minutes before mean sunrise at Lanka on 25th February A D 974. That therefore was the day "Chaitra sukla 1."

A D 963-64, 982-83, col 8 In both these years an interculation of the lunar month Śrāvana instead of Āshādha would have been more in accordance with the 19-year sequence, seeing that Śrāvana was the interculated month in A D 1001 and 1020, but prior to "A"D 963 at intervals of 19 years there had been eight interculations of Śrāvana, and towards, the close of such a ran a change of conditions generally becomes apparent

A D. 1001-2, 1020-21, col 8 See the previous note If in these two years the conditions had made necessary an intercalation of Ashādha, the 19-year sequence would have been uninterrupted

A.D 1128-29, col 8 By the Brahma-Siddhanta the intercalcular of Phalguna vas clearly demanded See Remarks preceding Table LX (above, Vol XV), on the same year as worked by the Siddhanta-Siromani.

TABLE

GENERAL TABLE FOR CALCULATION

Conforming to Table I " Indian Calendar"

(See notes on

Kall Sala							CONC	JRRENT :	YEAR		
1				em l					Jovian Sad	IVATSARA	(adhika) and
1 2 3 3\tilde{a} 4 5 6 7 8 3 3\tilde{a} 5 6 7 8 3 3\tilde{a} 5 6 5 5 5 5 5 5 5 5	Kalı	Sal	.8.	Chaltradı Vıkra	Meshadi solar 10 Bongal	Kol	lam	A D			(kshaya) true
3702 523 658 7 *600 01 51 Pingala 3 Jyšahtha 3703 524 650 8 601 02 52 Kālayukta	1	\ <u> </u>	2	3	_		4	5	6	7	8
3704 625 660 9 603 04 54 Raudra	3702		523	658		7		*600 01	51 Pu	ngala	3 Jyështha
3705 526 661 10 603 04 54 Raudra	_,	- 1		1	1	- 1		1	1	•	
3706 527 662 11 *604 05 55 Durmati . 3707 623 663 12 605 06 56 Dundubhi 5 Śrāvana . 3708 529 664 13 600 07 57 Rudhirōdgārin . 3709 530 665 14 607-08 58 Raktāksha . 3710 531 666 15 *608 09 59 Krōdhana 4 Āshāḍha . 3711 532 667 16 609 10 60 Kshaya . . 3712 533 668 17 610 11 1 Prabhava 2 Vubhava 2 Vuišākha 3711 534 669 18 611-12 2 Vubhava 2 Vuišākha 3712 536 671 20 613 14 5 Pramēda 6 Bhādrapada 3715 536 671 20 613 14 5 Pramēda 6 Bhādrapada 3715 537 672 21 614 15 6 Angirasa . 3719 540 673 24 616 17 7 Śrīmukha		1						1			(11 Māgha (ksh)
3767 628 663 12 605 06 56 Dundubhi 5 Śrāvana . 3708 529 664 13 606 07 57 Rudhirōdgārin . 3709 530 665 14 607-08 58 Raktālsha . 3710 531 666 15 *608 09 59 Krōdhana 4 Āshāḍha 3711 532 667 16 609 10 60 Kshaya . 3712 533 668 17 610 11 1 Prabhava 2 Vaišākha 3713 634 669 18 611-12 2 Vibhava 2 Vaišākha 3714 635 670 19 *612-13 3 Šukla 2 Vaišākha 3715 636 671 20 613 14 5 Pramēda 6 Bhādrapada 3715 537 672 21 614 15 6 Angirasa . 3718 540 673 24 617 18 8 Bhāva . 3720 541 676 25 618 19 9 Yuvan . 3721 543<	•	1		"	_			1			1 Chaitra
3703 529 664 13 606 07 57 Rudhirōdgārin 3709 530 665 14 607-08 58 Raktāksha 3710 531 666 15 *608 09 59 Krōdhana 4 Āshādha . 3711 532 667 16 609 10 60 Kshaya . 3712 533 668 17 610 11 1 Prabhava . 3713 634 669 18 611-12 2 Vibhava 2 Vaišākha 3714 635 670 19 *612-13 3 Śukla 3715 536 671 20 613 14 5 Pramōda 6 Bhādrapada 3716 537 672 21 614 15 6 Prajāpati 3717 533 673 22 615 16 6 Angirasa . 3718 530 674 23 *616 17 7 Srīmukha 4 Āshādha . 3719 540 673 24 617 18 8 Bhāva . 3720 541 676 25 618 19 9 Yuvan . 3721 542 677 26 619-20 10 Dhātri . 3 Jyāshtha .		- 1		1	1			1			-4-
3709 530 665 14 607-08 58 Raktāksha 3710 531 666 15 *608 09 59 Krōdhana 4 Āshādha 3711 532 667 16 609 10 60 Kshaya 3712 533 668 17 610 11 1 Prabhava 3713 534 669 18 611-12 2 Vibhava 2 Vaišākha 3714 535 670 19 *612-13 3 Šukla 3715 536 671 20 613 14 5 Pramēda 6 Bhādrapada 3715 537 672 21 614 15 6 Prajāpati 3717 533 673 22 615 16 6 Angirasa 3719 540 675 24 617 18 8 Bhāva 3720 541 676 25 618 19 9 Yuvan 3 Jyūshtha 3 Jyūshtha					- 1			1			5 Srāvana •
3710 531 666 15				1	- 1				ŀ	-	
3711 532 667 16 600 10 60 Kshaya . 3712 533 668 17 610 11 1 Prabhava . 3713 634 669 18 611-12 2 Vibhava 2 Vaišākha 3714 635 670 19 612-13 3 Šukla 3715 536 671 20 613 14 5 Pramēda 6 Bhūdrapada 3717 537 672 21 614 15 6 Prajāpati 3718 539 674 23 615 16 6 Angirasa . 3719 540 675 24 617 18 8 Bhāva . 3720 541 675 25 618 19 9 Yuvan 3721 542 677 20 619-20 10 Dhūtri . 3 Jyūshtha .		- 1									. Takasha
3712 533 668 17 610 11 1 Prabhava 2 Valšākha 3713 634 669 18 611-12 2 Vibhava 2 Valšākha 3714 635 670 19 *612-13 3 Šukla 2 Valšākha 3715 636 671 20 613 14 5 Pramoda 6 Bhādrapada 3715 537 672 21 614 15 6 Prajāpati 3715 533 673 22 615 16 6 Angirasa 3718 539 674 23 *616 17 7 Srīmukha 4 Āshādha 3719 540 675 24 617 18 8 Bhāva . 3721 541 676 25 618 19 9 Yuvan . 3721 542 677 26 619-20 10 Dhātri 3 Jycshtha .	371	11	53:	2 6	67	16		1	302.		4 Asnaqua
3713 634 669 18 611-12 2 Vibhava 2 Vaišākha 3714 635 670 19 *612-13 3 Šukla 6 Bhādrapada 3715 536 671 20 613 14 5 Pramēda 6 Bhādrapada 3715 537 672 21 614 15 6 Prajāpati 3717 538 673 22 615 16 6 Augurasa 3718 539 674 23 *616 17 7 Srīmukha 4 Āshādha 3719 540 675 24 617 18 8 Bhāva 9 Yuvan 3720 541 676 25 618 19 9 Yuvan 3 Jyūshtha 3721 542 677 26 619-20 10 Dhātri 3 Jyūshtha	37	12	53:	3 6	68	17		1		-	
3716 635 670 19 *612-13 3 Śukla 3715 536 671 20 613 14 5 Pramôda 6 Bhādrapada 3715 537 672 21 614 15 6 Prajāpati 3717 533 673 22 615 16 6 Angirasa . 3718 539 674 23 *616 17 7 Srīmukha . 4 Āshādha . 3719 540 675 24 617 18 8 Bhāva . 3720 541 676 25 618 19 9 Yuvan . 3721 542 677 26 619-20 10 Dhātri . 3 Jyāshtha .	37	13	63	s 6	co	18		611-1	1		2 Varšākha
5 Pramoda 6 Bhādrapada 5 Pramoda 6 Bhādrapada 5 Pramoda 6 Bhādrapada 7 Srīmukha 7 Srīmukha 8 Bhāva 9 Yuvan 1722 542 677 26 619-20 10 Dhātri 3 Jyūshtha	37	11	67	5 6	570	19		*612-1	3 3 5	iukla	5 , 4
3715 537 672 21 614 15 6 Prajāpati 3717 538 673 22 615 16 6 Angīrasa 3718 539 674 23 *616 17 7 Srīmukha 4 Āshādha 3719 540 675 24 617 18 8 Bhāva 8 Bhāva 3720 541 676 25 618 19 9 Yuvan 3721 542 677 26 619-20 10 Dhātri 3 Jyāshtha	37	115	23	16	G71	20		613	14 51	Pramôda	6 Bhādrapada
2717 533 673 22 615 16 6 Angurasa . 2718 539 674 23 *616 17 7 Srīmukha . 4 Āshādha 2719 540 675 24 617 18 8 Bhāva . 2720 541 676 25 618 19 9 Yuvan 2721 542 677 26 619-20 10 Dhātri 3 Jyāshtha	3	715	5	37	672	21		614	15 61	Prajapati	
3719 540 675 24 617 18 8 Bhāva . 4 Āshādha . 3720 541 675 25 618 19 9 Yuvan . 3721 542 677 20 619-20 10 Dhātri . 3 Jycshtha .			5	33	673	22		615	1	•	
3719 540 675 24 617 18 8 Bhāva. 3720 541 676 25 618 19 9 Yuvan 3721 542 677 20 619-20 10 Dhātri . 3 Jyāshtha .			1	1	- 1	23		•616			4 Āshādha
3721 E42 C77 25 619-20 10 Dhātri . 3 Jyāshtha .			1	- 1	1			617	18 8	Bbāva .	
3 Jyūshtha . 3 Jyūshtha .			- 1	- 1			i	618	19 9	Yuvan	
			- 1	ł	1	l	1	619	-20 10	Dhātņ .	3 Jyështha .
	.es	J:I		H3	67:	27		*620	-21	Iśvara .	

LXXXII.

BY THE BRAHMA-SIDDHANTA

the columns being similarly numbered preceding page

			COI	MME	NCEMENT OF	THE				Ī
3	OLAR YEAR	:			Luni-solar y	YEAR (MEAN CHAITRA	SUNRISE OF SURLA 1 EN	CIVIL DAY (N WRICH	
Day and month A D	Week- day		e of t ha sa ranti	am-	Day and month A D	Week- day	а	ь	С	Kalı
13	14		17		19	20	23	24	25	1
		H	M	s			-			
19 Mar (78)	5 Thur	1	6	0	3 Mar (62)	3 Tues	9932 8171	66 0032	233 7104	3701
18 Mar (78)	6 Fri	7	18	8	21 Feb (52)	1 Sun	147 1720	949 5390	205 6250	3702
18 Mar (77)	O Sat .	13	30	18	11 Mar (70)	0 Sat	181 8544	885 5324	256 9354	3703
18 Mar (77)	1 Sun	19	42	27	28 Feb (59)	4 Wed	57 5772	732 7766	226 1121	3704
19 Mar (78)	3 Tues	1	54	36	18 Fcb (49)	2 Mon	271 9320	616 3122	203 5023	3705
18 Mar (78)	4 Wed	8	6	45	7 Mar (67)	0 Sat	9967 9825	516 0140	246 5994	3706
18 Mar (77)	5 Thur	14	18	54	24 Feb (55)	4 Wed	9843 7052	363 2681	215 7762	3707
18 Mar (77)	6 Frı .	20	31	3	15 Mar (74)	3 Tues	9878 3876	299 1516	267 0865	3708
19 Mar (78)	1 Sun	2	43	12	4 Mar (63)	O Sat .	9754 1105	146 4956	236 2624	3709
18 Mar (78)	2 Mon	8	55	21	22 Feb (53)	5 Thur	9968 4653	30 0312	208 1780	3710
18 Mar (77)	3 Tues	15	7	30	12 Mar (71)	4 Wed	3 1477	966 0247	259 4884	3711
18 Mar (77)	4 Wed.	21	19	39	2 Mar (61)	2 Mon	217 5025	849 5604	231 4029	3712
19 Mar (78)	6 Frı	3	31	48	19 Feb (50)	6 Fr	93 2254	696 8045	200 5797	3713
18 Mar (78)	0 Sat	9	43	57	9 Mar (60)	5 Thur	127 9077	632 7980	251 8902	3714
18 Mar (77)	I Sun	15	56	6	26 Feb (57)	2 Mon	3 6306	480 0421	221 0669	3715
18 Mar (77)	2 Mon	22	8	15	16 Mar (75)	0 Sat	9999 6810	379 7440	269 6395	3716
19 Mar. (78)	4 Wed	4	20	24	6 Mar (65)	5 Thus	9914 0358	263 2795	241 5542	3717
18 Mar (78)	5 Thur	10	32	33	23 Feb (54)	2 Mon	9789 7587	110 5236	210 7310	3718
18 Mar (77)	6 Fri	16	44	42	13 Mar (72)	1 Sun	9824 4420	46 5171	262 0414	3719
18 Mar (77)	0 Sat	22	56	51	3 Mar (62)	6 Fr	38 7959	930 0528	233 9559	3723
10 Mar (78)	2 Mon	5	9	0	21 Feb (52)	4 Wed	253 1507	813 5885	205 8705	3721
18 Mar (78)	3 Tues	11	21	9	11 Mar (71)	3 Tues	287 8331	749 5820	257 1810	3722
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										-, -	T	
					CONC	URRENT	C AEVE				_	
			en la	year				Jovian Sam	IVATSARA			Intercalated (adhika) and suppressed (Lshaya) true
Kab	Sali	a .	Chaitrādi Vikrama.	Meshadı solar y ın Bengal	Kollam	A D		Southern system	Northe system			lunar months
1	2	-¦-	3	3a	4	5		6	7		_ .	8
3723	5	44	679	28		621	1-22	12 Bahu	_	•		7 Āśvina .
3724	1 2	515	680	29		62:	2-23		athm .	•		••
372	5 4	546	681	30		62	3 24	14 Vikra		•		# 6-5
372	8	547	682	31		*62	4 25	15 Vrisi		•		5 Śrāvaņa .
372	7	548	683	35	:	62	5 26	16 Chiti		•		••
372	28	549	684	3	3	62	26 27	17 Subl		•		 4 Āshādha .
37	29	550	68	5 3	4	62	27-28	18 Tāra		•	٠,	4 Asnacha
37	80	551	68	8 3	5	1	28-29	19 Pārt		•		•
	31	552	1		8		29 30	20 Vya;	-	•	.	2 Varšākha
	732	553		*	17		30 31	21. Sarv	•	•	•	Z Vaisakus •
	733	554			8	- 1	31 32	22 Sarv	radhärin	•	•	6 Bhādrapada
	735	555	1		39 40	1	32 33	23 Vik	-	•		O Diractapas
	736	556 557			41	1	634-35	25 Kh	•	•		
	1177	E51		·	42		635 36	26 Ne	•	•		4 Āshādha •
:	3725	53		94	43	ì	636 37	27 V13		•		
;	3737	00	n c	าร	44		637-38	28 Jay		•		•
	3740	27		305	45		638 39		nmatha .	•		3 Jyështha •
	3741	20	12 j	207	46		639 40	30 Du	rmukha .	•		•
	2742	U	3	crs	47	•	640 41	31 Hē	malamba	•	•	7 Āśvina •
	3*63	2	લ !	653	48		641-42	32 Vil	kmba .	•	•	
	3744	ţ	1	700	49		612 43	33 Vıl	kārın .	•		
	3745	ì	1	701	£0		(43 44	34 Sā	rvarin .	•	•	5 Śrāvaņa •
	214	ł		103	81		• 644-45	35 Pl		•	•	
) 12 ******			700	12		643-46	38 Su	ibhakrit .	•	•	••

LXXXII-Contd

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			(COM	MENCOMENT	OF THE				-
	Solab yeai	R	*******		LUNI SOLAE		n sunrise o Ra śukla 1		ON WHICH	
Day and month A D	Weck- day	Mč	oo of sha s krant		Day and month A D	Week- day	a	b	c	Kali.
13	14	-	17		19	20	23	24	25	1
		H	M	s		-	 		-	1
18 Mar (77)	4 Wed	17	33	18	28 Feb (59)	0 Sat.	163 5560	596 8261	226 3577	3723
18 Mar (77)	5 Thur	23	45	27	18 Mar (77)	5 Thur.	9859 6063	496 5279	274 9303	3724
19 Mar (78)	0 Sat	5	57	36	8 Mar (67)	3 Tues	73 9612	380 0635	246 8449	3725
18 Mar (78)	1 Sun .	12	9	45	25 Feb (56)	0 Sat	9949 6840	227 3076	216 0218	3726
18 Mar (77)	2 Mon	18	21	54	15 Mar (74)	6 Fri	9084 3664	163 3011	267 3321	3727
19 Mar (78)	4 Wed	0	34	3	4 Mar (63)	3 Tues	9860 0892	10 5451	236 5089	3728
19 Mar (78)	5 Thur	6	46	12	22 Feb (53)	1 Sun .	74 4441	894 0800	208 4235	3729
18 Mar (78)	6 Fn	12	58	21	12 Mar (72)	0 Sat	109 1265	830 0742	259 7340	3730
18 Mar (77)	O Sat .	19	10	30	2 Mar (61)	5 Thur ††	323 4813	713 6100	231 6485	3731
19 Mar (78)	2 Mon	,	22	39	19 Feb (50)	2 Mon	199 2041	560 8540	200 8252	3732
19 Mar (78)	3 Tues	7	34	47	9 Mar (68)	0 Sat	9895 2545	461 5558	249-3979	3733
18 Mar (78)	4 Wed	13	46	56	26 Feb (57)	4 Wed	9770-9774	307 7999	218 5748	3734
18 Mar (77)	5 Thur	19	59	5	16 Mar (75)	3 Tues	9805 6597	243 7934	269 8851	3735
19 Mar (78)	0 Sat	2	11	14	6 Mar (65)	1 Sun .	20 0146	127 3290	241 0922	3736
19 Mar (78)	1 Sun	8	23	23	23 Feb (54)	5 Thur	9895 7375	974 5731	210 9765	3 737
18 Mar (78)	2 Mon	14	35	32	13 Mar (73)	4 Wed	9930 4199	910 5666	262 2870	3738
18 Mar (77)	3 Tues	20	47	41	3 Mar (62)	2 Mon	144 7746	794 1023	234 2015	3739
19 Mar (78)	5 Thur	2	59	50	20 Feb (51)	6 Frı	20:4975	641 3463	203 3783	3740
19 Mar (78)	6 Fr	9	11	59	11 Mar (70)	5 Thur	55 1799	577 3398	254 6887	3741
18 Mar (78)	0 Sat .	15	24	8	28 Feb (59)	2 Mon	9930 9027	424 5838	223 8655	3742
18 Mar (77)	1 Sun	21	36	17	18 Mar (77)	1 Sun	9965 5851	360 5774	275 1759	3743
19 Mar (78)	3 Tues	3	48	26	7 Mar (66)	5 Thur	9841 3081	207 8213	244 3527	3744
19 Mar (78)	4 Wed	10	0	35	25 Feb (56)	3 Tues	55 6628	91 3571	216 2673	3745
18 Mar (78)	5 Thur	16	12	44	15 Mar (75)	2 Mon	90 3451	27 3506	267 5776	3746
18 Mar (77)	6 Fri	22	24	53	4 Mar (63)	6 Frı	9966 0680	873 8747	236 7545	3747

^{††} See "Remarks," above, on page preceding the Table.

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		ıkrama	ar your				Jovian Sai	Myatsara		Intercalated (adhika) and suppressed
Kab.	Sala	Chaitradi Vikrama	Meshadi solar your	wanor u	ollam	A. D	Southern system	Northe syster		(kshaya) true lunar months.
1	2	3	36	2	4	5	6	7		8
3748	560	70	и	53		646 47	37 Śōbli	ana .		4 Āshāḍha
3749	570	70)5	54		647-48	38 Kr3d	bin .		1 . 1
3750	57	70	06	55		*648-49	39 Viávi	āvasu† .		
3751	57:	2 7	07	56		649-50	41 Plan	anga .	•	2 Vaišākha .
3752	57	3 7	03	57		650 51	42 Kīla	la		
3753	67	4 7	တ	58		651-52	43 Saur	nya .		6 Bhādrapada.
3754	E7	5 7	10	59		*652-53	44 Sādī	hārana .		
375	5 57	6 7	m	60		653 54	45 Virt	idhakr st .		1 1
376	ia 0	77	712	61		654 55	46 Par	dhāvn .		4 Āshādha
375	- -	78	713	62		655 56	47 Pra	mūdin .]
378	٠ `	70	714	63		*656 57	48 Āna	ında	•	
375	1	60	715	61		657 5	49 Rāi	kehasa .	•	3 Jyështha .
57/		31	716	65		659-5	50 An	ala	•	
27		592	717	GG		659 6	01 1111	gala .	•	. 7 Āśvina .
37	1	643 643	718	67		*660 6		layukta .	•	
	: 68	:05	729	69		661 6]	ldhärthin	•	
		213	721	70		G62 (-	•	. 5 Śrāvaņa .
	ner	T-77	722	71	1	*661		rmatr .	•	• • •
:	ا مرم	Ews.	723	72	1	665.	1	ındubhı .	•	• •
•	•-}. ¹	2-7	724	7:	1	ese.	1	ndhrödgārın	•	- 4 Āshādha
	3747	*7*1	727	-	1	687	1	aktāksha rodhana	•	• •
	ا ر ۱۰۰ ۰	£71	724	-	5	•005		shaya .	•	•
	3	**2	757	-	-	ero		rabhava	•	- 1 Chartra
	3***	E73	9	7	:	670		ibhava .	•	·
	interior	arin de Jaren	******* *	400-4	**************************************	t 43 lates	ava was suppressed.	•	•	. 5 Śrāvaņa .

LXXXII-Contd

				COM	imencement	OF THE				1
		•••••			7			·	·····	-{
	Solar Year	i.			Luki-solai	челв (мел Спат	in sunrist (Ra Šukla l	of Civil Day Lads)	OY MHICH	
Day and month A D	Week- day.	MC	ne of sha s crint	am-	Day and month A D	Week- day	a	b	c	Kalı
13	14		17		19	20	23	24	25	1
		H	M.	8.						1
19 Mar (78)	1 Sun .	4	37	2	22 Feb (53)	4 Wed	180 4229	758 1223	208 6691	3748
19 Mar. (78)	2 Mon.	10	49	11	13 Mar, (72)	3 Tues	215 1032	694 1237	259 9795	3749
18 Mar. (78)	3 Tues	17	1	20	1 Mar (61)	0 Sat .	90 8281	541 3679	229 1662	3750
18 Mar. (77)	4 Wed	23	13	29	18 Feb (49)	4 Wed	9906 5700	388 6119	198 3330	3751
19 Mar (78)	6 Fra .	5	25	38	9 Mar. (68)	3 Tues	1 2333	324 6053	249 6435	3752
19 Mar (78)	0 Sat	11	37	47	26 Feb (57)	0 Sat .	9876 9561	171 8494	218 8203	3753
18 Mar (78)	1 Sun .	17	49	56	16 Mar (76)	6 Fri	9911 6385	107 8429	270 1306	3754
19 Mar (78)	3 Tues.	0	2	5	6 Mar (65)	4 Wod	125 9934	991 3786	242 0453	3755
19 Mar (78)	4 Wed.	6	14	14	23 Feb (54)	1 Sun	1 7162	838 6227	211 2 22 1	3756
19 Mar. (78)	5 Thur	12	26	23	14 Mar (73)	0 Sat	36 3986	774 6161	262 5325	3757
18 Mar (78)	6 Fri	18	38	32	3 Mar (63)	5 Thur	250 7534	658 1518	234 4470	3758
19 Mar. (78)	l Sun.	0	50	41	20 Feb (51)	2 Mon.	126 5863	505 3958	203 6238	3759
19 Mar. (78)	2 Mon	7	2	50	10 Mar (69)	0 Sat .	9822 5266	405 0977	252 1965	3760
19 Mar (78)	3 Tues .	13	14	59	28 Feb. (59)	5 Thur.	36 8815	288 6334	224 1110	3761
18 Mar. (78)	4 Wed.	19	27	8	17 Mar (77)	3 Tues.	9732 9319	188 3353	272 6836	3762
19 Mar. (78)	6 Fri	1	39	17	7 Mar (66)	1 Sun .	9947 2867	71 8709	244 5982	3763
19 Mar (78)	0 Sat	7	51	26	25 Feb (56)	6 Fri	161 6415	955 4066	216 5129	3764
19 Mar (78)	1 Sun	14	3	35	16 Mar (75)	5 Thur	196 2239	891 4001	267 8232	3765
18 Mar. (78)	2 Mon	20	15	44	4 Mar (64)	2 Mon	72 0468	738 6441	237 0600	3746
19 Mar (78)	4 Wed	2	27	53	21 Feb (52)	6 Fn .	9947 7696	585 8882	206 1768	3767
19 Mar (78)	5 Thur.	8	40	2	12 Mar (71)	5 Thur.	9982 6410	521 8617	257 4873	3768
19 Mar (78)	6 Fri	14	52	11	1 Mar. (60)	2 Mon.	9858 1749	3C9 1257	226 6640	3769
18 Mar (78)	0 Sat	21	4	20	18 Feb. (49)	6 Fri .	9733 8977	216 3699	195 8407	3770
19 Mar (78)	2 Mon	3	16	29	8 Mar (67)	5 Thur	9768 5801	152 5632	247 1512	3771
19 Mar. (78)	3 Tues.	9	28	38	26 Feb (57)	3 Tues.	9982 9349	35 8889	210 0659	3772

TABLE

			<u>-</u>	CONCU	RRENT Y	EAR		
		v ıkrama	olar year al			JOVIAN SA	NVATSARA	Intercalated (adhika) and suppressed (I shaya) true
Kali	Saka	Chutrādi Viķrama	Mc4h idi solar ın Bengal	Kollam	A D	Southern system	Northern system	lunar months
1	2	3	311	4	5	6	7	8
3773	591	729	78		671 72	3 Śukla		
3774	503	730	79		*672 73			•
3775	596	731	80		673 74	4 Pran	•	
3776	597	732	81		674-75	5 Praji	-	. 4 Åshādha
3777	595	733	82		675.76	6 Angu		
3778	590	731	83		*676 77	7 Srim		•
3779	600	735	81		010 11 017-78	8 Bhūr 9 Yuva	- •	. 2 Vaišūkha
3780	COI	730	85		678-79		•	•
3751	602	737	86		679 80	10 Dhāt 11 Isvar	·	7 Āśvina
3753	En3	739	67		*680 81	•	• •	•
3743	Cot	732	89		691 82	12 Bahu	athin .	•
374	ens	740	89		682 83	14 Vikri	•	. 5 Śrāvana
3743	s em	741	90		653 84	fertV 21	•	•
3-4	s en	742	61		*684 85	16 Chiti	- •	
378	· con	743	92		683 86	17 Subl	•	. 3 Jyështha .
374	1 ' '	764	93		645 87	18 Türa	•	
3*+	1	1	91		637 88	19 Pärt	•	-
3 * ·	7	1	9:	;	*658 89	20 Vija;	- •	l Chaitra .
5 7,					640 90	21 Surv	-	
3°.	į				690 81	1	adhārm	5 Srāvaņa
3,	1			1	691 92	23 Virō		•1
3		1	1	ŧ	*6.2 93		- ·	- 4 Āshādha.
		* 751 7	ŧ	1	C>3 04	25 kha		. vansous
	į	1 12	1	1	C31 82	26 Nan	•	
***	-	F			£75 95		- •	. 2 Vaitākha

LXXXII-Contd.

					COMMENCE	IENT OF	THE			Ī
S	OLAR YEAR	•			Luni-solai	YEAR (MF.	an Sunrise Tra Śurla)	of civil da l ends).	Y ON WHICH	1
Day and month A. D	Week- day	M		true sam- tı.	Day and month A. D	Week-day.	а	ь	•	Kali.
13	14		17		19	20	23	24	25	
		H.	M	8			_	_	_	
19 Mar (78)	4 Wed.	15	40	47	17 Mar. (78)	2 Mon	17 617	3 971 892	4 270 376	2 3778
18 Mar (78)	5 Thur.	21	52	56	6 Mar (66)	0 Sat	. 231 962	1 855 428	242 290	7 3774
19 Mar (78)	0 Sat .	4	5	5	23 Feb (54)	4 Wed.	107 695	0 702 6722	211 4670	3775
19 Mar (78)	18un .	10	17	14	14 Mar (73)	3 Tues.	142 377	1 628 6656	262 7781	3776
19 Mar (78)	2 Mon	16	29	23	3 Mar (62)	0 Sat	. 18 1001	485 9097	231 9548	3777
18 Mar (78)	3 Tues	22	41	81	20 Feb (51)	4 Wed.	9893-8230	333 1537	201 1315	3778
19 Mar (78)	5 Thur	4	53	40	10 Mar (69)	3 Tues	9928 5054	269 1472	252 4420	3779
19 Mar (78)	6 Fm .	11	5	49	27 Feb (58)	O Sat .	9804 2283	116 3913	221 6188	3780
19 Mar (78)	O Sat .	17	17	5 8	18 Mar. (77)	6 Fm .	9838 9106	52 4848	272 9292	3781
18 Mar. (78)	1 Sun	23	30	7	7 Mar (67)	4 Wed	53 2655	935 9205	244 8437	8782
19 Mar (78)	3 Tues	5	42	16	25 Feb (56)	2 Mon	267 6203	819 4561	216 7584	3783
19 Mar (78)	4 Wed.	11	54	25	16 Mar (75)	1 Sun	302 3027	755 4496	268 0688	3784
19 Mar (78)	5 Thur	18	6′	34	5 Mar (64)	5 Thur	178 0255	602 6936	237 5456	3785
19 Mar (79)	0 Sat	0	18	43	22 Feb (53)	2 Mon	53 7384	449 9378	206 4223	3786
19 Mar (78)	1 Sun	6	30	52	12 Mar (71)	1 Sun	88 4308	385 9312	257 7328	3787
19 Mar (78)	2 Mon	12	43	1	1 Mar (60)	5 Thur	9964 1536	233 1752	227 1096	3788
19 Mar (78)	3 Taes	18	55	10	18 Feb (49)	2 Mon	9839 8765	80 4194	196 0863	3789
19 Mar (79)	5 Thur.	1	7	19	8 Mar (68)	∿l Sun	9874 5589	16 4127	247 3967	3790
19 Mar (78)	6 Fri	7	19	28	26 Feb (57)	6Fri.	88 9137	899 9484	219 3114	3791
19 Mar (78)	0 Sat	13		37	17 Mar (76)	5 Thur	123 5960	835 9419	270 6218	3792
19.Mar (78)	1 Sun .	.19	43	46	6 Mar (65)	2 Mon	9999 3189	683 1860	239 7986	3793
19 Mar (79)	3 Tues		55	55	24 Feb (55)	0 Sats .	213 6738	566 7217		37 04
19 Mar (78)	4 Wed	8	8	4	13 Mar, (72)	5 Thur.	9909 7241	466 4235		8795
19 Mar (78)	5 Thur			13	2 Mar. (61)	2 Mon	9785 4470	313 6675	1	3796
19 Mar (78)	6 Fri.	20	32	22	20 Feb (51)	0 Sat	9999 8018	197 2032	201 8771	3797

TABLE

				CONC	URREN	r year				
		em a	year				Jovian San	Vatsara	(adl	ercalated hika) and ppressed haya) true
Kalı	Saka	Chaitrādı Vikrama	Mëshādı solar ın Bengal	Kollan	A I		Southern system	Northern system	lùna	r months
1	2	3	3a	4	5		6	7	_	8
34	618 620 62 62 62 63 63 63 65 66 66 67	754 755 1 756 2 757 23 759 24 76 25 76 26 76 26 76 327 74 628 7 630 7	103 104 105 106 3 107 9 108 0 109 31 11 132 11 63 11 765 1	3 9 0 11	*69696969*7077	6 97 7-98 88 99 99 700 00 70 01 02 02 03 03 04 704-05 705 06 706 07 707-08 *708 09 709 10 710 11 711-12 *712-13 713 14	28 Jaya 29 Man 30 Dur 31 Hen 32 Vila 33 Vik 34 Sar 35 Pla 36 Su 37 So 38 Kr 39 Vr 40 Pr 41 Pr 42 Fr 43 Sr	matha	. 5 6	shādrapada Srāvaņa Šrāvaņa
	3916 3817	637	772	121		714-15 715 16		Parıdhāvın . • Pramādın •		2 Vaišākha •
	3818 3819	639	774 775	123 124		*716 17 717-18	48	Ananda .		6 Bhādrapada
	282(ì	1	125		718-19	1	Anala		i i
	382 382	1	1	126 127		719 20 *720 21		Pıngala . Kālayukta .		5 Śrāvana

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				COM	MENCEMENT	OF THE				_
S	olar leab				Luni-solar	YEAR (MEA CHAITE	n sunrise o la éugla 1 e	F CIVIL DAY INDS).	ногну ко	
Day and month A D	Week- day	Mc	e of sha s rānt		Day and month A D	Week- day.	а	b	c	Kal
13	14		17		19	20	23	24	25	1
19 Mar (79)	l Sun .	H 2	M 44	8 31	10 Mar (70)	6 Frı	34 4841	133 1967	252 6875	1
19 Mar (78)	2 Mon	8	56	40	27 Feb (58)	3 Tues	9910 2070	1	221 8643	3799
19 Mar (78)	3 Tues	15	8	49	18 Mar (77)	2 Mon	9944 8894	916 4343	273 1748	380
19 Mar (78)	4 Wed	21	20	58	8 Mar (67)	0 Sat	159 2443	799 9700	245 0671	380
19 Mar (79)	6 Fn	3	33	7	25 Feb (56)	4 Wed	34 9671	647 2140	214 2440	380
19 Mar (78)	0 Sat	9	45	16	15 Mar (74)	3 Tues	69 6496	583 2074 430 4516	265 5543 234 7311	380
19 Mar (78)	1 Sun.	15	57	25	4 Mar (63)	0 Sat .	9945 3723	}	203 9079	380
19 Mar (78)	2 Mon	22	9	34	21 Feb (52)	4 Wed	9821 0852	277 6956 213 6890	255 2184	3800
19 Mar (79)	4 Wed	4	21	43	11 Mar (71)	3 Tues	9855 7776	97 2248	205 2164	3807
19 Mar (78) 19 Mar (78)	5 Thur. 6 Fri	10	33 46	52	1 Mar (60)	1 Sun 5 Thur	70 1324 9946 0956	944 4986	196 3096	3806
19 Mar (78)	0 Sat	22	58	10	18 Feb (49) 9 Mar (68)	4 Wed	9980 5376	880 4623	247 6201	3809
19 Mar (79)	2 Mon	5	10	19	27 Feb (58)	2 Mon	194 8924	773 9979	219 5348	3810
19 Mar. (78)	3 Tues	-11	22	28	17 Mar (76)	1 Sun	230 5748	699 9914	270 8451	3811
19 Mar (78)	4 Wed.	17	34	37	6 Mar (65)	5 Thur	105 2977	547 2355	240 0219	3812
19 Mar (78)	5 Thur	23	46	46	23 Feb (54)	2 Mon	9981 0206	394 4796	209 1987	3813
19 Mar (79)	0 Sat	5	58	55	13 Mar (73)	1 Sun .	15 7029	330 4730	260 5092	3814
19 Mar (78)	1 Sun.	12	11	4	2 Mar (61)	5 Thur	9891 4258	178 7171	229 6859	3815
19 Mar (78)	2 Mon	18	23	13	20 Feb (51)	3 Tues	105 7806	61 2528	201 6004	3816
20 Mar (79)	4 Wed	0	35	22	11 Mar (70)	2 Mon	140 4629	997 2462	252 9109	3817
19 Mar (79)	5 Thur	6		31	28 Feb (59)	6 Fri	16 1858	844 4903	222 0877	3818
19 Mar (78)	6 Fri.	12	59	40	18 Mar (77)	5 Thur	50 8682	780 4838	273 3981	3819
19 Mar (78)	0 Sat	19	11	49	8 Mar (67)	3 Tues	265 2231	664 0195	245 3126	3820
20 Mar (79)	2 Mon	1	23	58	25 Feb. (56)	0 Sat	140 9458	511 2635	214 4895	3821
19 Mar (79)	3 Tues	7	36	7	14 Mar (74)	5 Thur	9836 9963	410 9654	263 0622	3922

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					COMMENCEME	ENT OF T	HE			
s	Solar Year				Luni solab		SUNRISE OF		ON WHICH	
Day and month A. D.	Week- day	Mcs	e of the series	m-	Day and month A D	Week- day.	a	ь	c	Kalı
13	14	<u> </u>	17		19	20	23	24	25	
		H	M	s			·	-	 	1-
19 Mar. (79)	4 Wed	13	48	15	4 Mar (63)	3 Tues	51 3511	294 5011	234 9767	3823
19 Mar (78)	5 Thur	20	0	24	21 Feb (52)	0 Sat	9027 0739	141 7452	201 1534	3824
20 Mar (79)	O Sat .	2	12	33	12 Mar (71)	6 Fri	9961 7563	77 7385	255 4693	3825
10 Mar (79)	1 Sun	8	24	42	1 Mar (61)	4 Wed	176 1112	961 2743	227 3785	3826
10 Mar (78)	2 Mon.	14	30	51	18 Feb (49)	1 Sun .	51 8342	808 5184	196 5552	3827
19 Mar (78)	3 Tues	20	49	0	9 Mar (68)	0 Sat	86 5163	744 5118	247 8656	3828
20 Mar (79)	5 Thur	3	1	8	26 Feb (57)	4 Wed	9062 2392	591 7559	217 0425	3829
19 Mar (79)	6 Tri	9	13	18	16 Mar (76)	3 Tues	0996 9216	527 7493	268 3529	3830
19 Mar. (79)	0 Sat	15	25	27	5 Mar (64)	0 Sat	9872 6444	374 9934	237 5297	3831
19 Mar (78)	1 Sun	21	37	36	22 Feb (53)	4 Wed	9748 3673	222 2374	206 7064	3832
20 Mar (79)	3 Tues	3	49	45	13 Mar (72)	3 Tues	9783 0497	158 2309	258 0169	3833
19 Mar (79)	4 Wed	10	1	54	2 Mar (62)	1 Sun .	9997 4046	41 7666	229 9215	3834
19 Mar (78)	5 Thur	16	14	3	20 Feb (51)	6 Frı	211 7493	925 3023	201 8460	3835
19 Mar (78)	6 Fri .	22	26	12	11 Mar (70)	5 Thur	246 4417	861 2958	253 1564	3836
20 Mar (79)	1 Sun	4	38	21	28 Feb (59)	2 Mon	122 1646	708 5398	222 3332	3837
19 Mar (70)	2 Mon.	10	50	30	18 Mar (78)	1 Sup	150 8460	644 5333	274 6437	3838
19 Mar (78)	3 Tuos	17	2	39	7 Mar (66)	5 Thur	32 5698	501 7773	242 8204	3839
19 Mar (78)	4 Wod	23	14	48	24 Feb (55)	2;Mon.	9908 2926	339 0214	211 9973	3840
20 Mar (79)	6 Fr	5	26	57	15 Mar (74)	1 Sun , , ,	9942 9751	275 0149	263 2077	3841
19 Mar. (79)	0 Sat	11	39	6	3 Mar (63)	5 Thur	9818 6978	122 2588	232 4845	3842
19 Mar (78)	1 Son	17	51	15	21 Feb (52)	3 Tues	33 0527	5 7947	204 3990	3843
20 Mar (79)	3 Tues	0	3	24	12 Mar (71)	2 Mon	67 7351	941 7880	255 7105	3844
20 Mar (79)	4 Wed	6	15	33	2 Mar (61)	0 Sat	282 0900	825 3238	227 6240	3845
19 Mar (79)	5 Thur.	12	27	42	19 Feb (50)	4 Wed	157 8127	672 5678	196 8007	3846
19 Mar. (78)	6 Fri	18	39	51	9 Mar (68)	3 Tues	192 4951	608 2 613	248 1112	3847

			AR	JRRENT Y	CONC				
Interculated (adhika) and suppressed (kshaya) true		Myatsaba.	Jovian Sa			lar year 1,	7ıkramo.		
luner months.		Northern system.	Southern system.	A D.	Kollam.	Möshädı solar ın Bongal,	Chattādi Viktama.	Saka	Kalı
8		7	6	5	4	3a	3	2	1
		_					804	669	3848
5 Stävana	•	•	19 Parth	746 47		153	805	670	3849
444	·		20 Vyay	747-48		154	808	671	3850
***	·		21 Sarva	*748-49		155	}		3851
3 Jyšshtha	-	dhārin .	22 Sarva	749 50		156	807	672	3852
•••		hin	23 Virod	750 51		157	808	673	1
••		a , .	24 Vikri	751-52		158	809	674	3853
2 Vališkha			25 Khar	*752-53		159	810	675	3854
••	. [ana	26 Nand	753 54		160	811	676	3855
6 Bhidrapada			27 Vijay	754-55		161	812	677	3856
•,•	.]		28 Jaya	755-58		162	813	678	3857
• •		atha	29 Mann	•758 57		163	814	679	2858
4 Āshādha .		ukha	30 Durn	757-58		164	815	680	3859
·		lamba	31 Hēms	758 59		165	816	681	3860
440		he	32 Vilan	759 60		166	817	682	3861
3 Jyështha	.	•	33 Vikās	*760 61		167	818	683	3862
- alestina		rin	34 Sārvi	761-62		168	819	684	3863
7 II	•	•	35 Play	762-63		169	820	685	3904
7 Āirma .	•	- •	36 Subi	763 64		170	821	686	3865
***	•		37 Sobb	*764-65		171	822	687	3866
***		-	38 Kröd	765 66		172	823	688	3867
5 Šrāvana	.	ivasu		766 67		1	824	689	3868
***		_	40 Para	767-68		1 ```	825	690	2869
***			41 Play	*768 69		1 ***	826	691	3870
3 Jyšshtha	•	_	42 Kilal	769-70		1 -10	827	692	3871
•••	•	- •	43 Saun	770 71	• }	177	828	693	3872

L	X	Χ	X1	<u>I</u>	Con	ld.

				(COM	MENCEMENT	OF THE						
	Sc	OLAT FEAR.				Luhi solah		n sunrise o la śukla 1 f		on Mhich	_ Kalı.		
Day month	and A D	Werk- day	ME	e of dia s rant		Day and month A D	Week- dny	a	b	c			
	13	14	_	17		19	20	23	24	25	1		
20 Mai	r. (79)	1 Sun	0			26 Feb (57)	O Sat .	G8 2180	455 8054	217 2881	3848		
20 Mai	r (79)	2 Mon	7	4	9	17 Mar (76)	6 Fri .	102 9003	391 7988	268 4984	3849		
19 Ma	r (79)	3 Tuos	13	16	18	5 Mar (65)	3 Tues	9978 6232	239 0429	237 7752	3850		
10 Ma	r (78)	4 Wed	19	28	27	22 Feb (53)	O Sat .	0854 3461	86 2869	206 9520	3851		
20 Ma	r (79)	GΓn .	1	10	36	13 Mar (72)	6 Fri	9889 0285	22 2804	258 2625	3852		
20 Ma	τ (79)	OSrt .	7	52	45	3 Mar (62)	4 Wed	103 3833	905 8161	230 1770	3853		
i	r. (79)	1 Sun	14	4	54	21 Feb (52)	2 Mon	317 7384	789 3518	202 0915	3854		
1	r (78)	2 Mon	20	17	3	10 Mar (69)	0 Sat	13 7885	689 0537	250 6642	3855		
20 Ma	r (79)	4 Wed	2	29	12	28 Feb (59)	5 Thur	228 1433	572 5894	222 5788	3856		
20 Ma	r (79)	5 Thur	8	41	21	18 Mar (77)	3 Tues.	9924 1937	472 2911	271 1514	3857		
19 Ma	er (79)	6 Fm	14	53	30	6 Mar. (66)	O Sat .	9799 9166	319 5352	240 3282	3858		
19 Ma	ır (78)	0 Sat.	21	5	39	21 Teb (55)	5 Thur	14 2714	203 0709	212 2428	3859		
20 Ma	ır (79)	2 Mon	3	17	48	15 Mar (74)	4 Wed	48 9538	139 0644	263 5533	3860		
20 Ma	ır (79)	3 Tues	9	29	57	4 Mar (63)	1 Sun .	9924 6766	986 3084	232 7300	3861		
10 Ma	ır (79)	4 Wed	15	42	G	22 Feb. (53)	6 Fn .	139 0315	869 8442	204 6445	3862		
19 Ma	ır (78)	5 Thur	21	54	15	12 Mar (71)	5 Thur.	173 7138	805 8377	255 9550	3863		
20 Ma	r (79)	O Sat .	4		24	1 Mar (60)	2 Mon	49 4367	653 0816	225 1318	3864		
20 Ma	r (79)	1 Sun	10	18	33	20 Mar (79)	1 Sun	84 1191	589 0751	276 4422	3865		
10 Ma	ır (79)	2 Mon	16	30	42	8 Mar (68)	5 Thur	9959 8420	436 3192	245 6189	3866		
19 Ma	r (78)	3 Tues	22	42	51	25 Feb (56)	2 Mon	9835 5647	283 5633	214 7958	3867		
20 Ma	r (79)	5 Thur	4	55	0	16 Mar (75)	1 Sun	9870 2472	219 5507	266 1062	3868		
20 Ma	r (79)	6 Fr	11	7	8	6 Mar (65)	6 Fri .	84 6020	103 0923	238 0208	3869		
19 Ma	ır (79)	0 Sat	17	19	17	23 Fob (54)	3 Tues	0960 3248	950 3365	207 1975	3870		
19 Ma	r (78)	1 Sun	23	31	26	13 Mar (72)	2 Mon	9995 0072	880 3299	258 5080	3871		
20 Ma	r (79)	3 Tues	5	43	35	3 Mar (62)	0 Sat	209 3621	769 8656	230 4226	3872		

				CONC	JRRENT Y	EAR			
		ıkrama	ar year		-	Jovian Sai	MVATSARA		Intercalated (adhika) and suppressed
Kalı	Saka	Chaitrādi Vikrama	Mëshadi solar in Bengal	Kollam	A D	Southern system	Northern system	1	(<i>kshaya</i>) true unar months
1	2	3	3a	4	5	6	7		8
3873	694	829	178		771-72	44 0=31.			
3874	695	830	179		*772-73	44 Sādhi		. 2	Vaišākha .
3875	696	831	180		773 74	45 Viröd 46 Parid	•		
3876	697	832	181		774 75	47 Prami	•	. 6	Bhādrapada
3877	698	833	182		775 76	48 Ānan	•	•	•
3878	699	834	183		*776-77	49 Rāksl	•		Āshādha
3879	700	835	184		777-78	50 Anala		1*	Asnaona
3880	701	836	185		778 79	51 Pinga	•		
3881	702	837	186		779 80	52 Kālas			Turalis
3882	703	838	187		*780 81	53 Siddh	_	- 1	Jyështha
3883	704	839	188		781-82	54 Raud	•	' "	Āévina .
3984	705	840	189		782-83	55 Durm	•		Asvida .
3885	706	841	190		783 84	56 Dund		.	
3886	707	842	191		*784 85		urödgärın .		Šrāvana .
3887	708	843	192	•	785 86	58 Rakti		- 1	oravana .
3888 3889	709	844	193	§ .	786 87	59 Kröd			
3890	1	845	194	1	787 88	60 Ksha	ya	3	·· Jyēshţha .
3891	1	846	-	ł	* 788 69	1 Prabl	hava		o leaning .
3892	1	847	1	i	789-90	2 Vibh	ava		
3803	1 110	848 849	1	}	790 91	3 Sukla		2	Vaišākha .
3891	1	1		ł	791-02	4 Pram	iôda		·
3393		1 -		1	792 93	5 Prajā	ipatı	6	Bhādrapada
3996	t	1	1	1	793 94	6 Angu	•		Prod
3997	718	1		i	794 95	7 Srīm	•		
		<u> </u>	1		795 96	8 Bhāv	а.	4	Áshādha .

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				OF THE	ENCEMENT (0317	C			
	ON WHICH	OL IT DAA (Suprise of Subla 1 ex	YEAR (MEAN Chaitra	Luni solar			•	iolar Year.	8
Kal	c	ъ	а	Week- day •	Day and month A. D.	nin-	o of the serion	Mes	Week- day.	Day and month A D
1	25	24	23	20	19	17			14	13
3873	199 5993	617 1097	75 0849	4 Wed	20 Feb (51)	S 44	M 85	H 11	4 Wed .	20 Mar (79)
3874	250 9097	553 1032	119 7672	3 Tues	10 Mar (70)	53	7	18	5 Thur	19 Mar (79)
3875	220 0866	400 3472	9995 4901	0 Sat .	27 Feb (58)	2	20	0	O Sat .	20 Mar (79)
3876	271 3970	336 3306	30 1725	6 Fri	18 Mar (77)	11	32	6	1 Sun .	20 Mar. (79)
3877	240 5738	183 5848	9905 8953	3 Tues	7 Mar (66)	20	44	12	2 Mon	20 Mar (79)
3878	212 4883	67 1204	120 2501	1 Sun	25 Teb (56)	29	56	18	3 Tues	19 Mar (79)
3879	263 7988	3 1139	154 9326	0 Sat .	15 Mar (74)	38	8	1	5 Thur	20 Mar (79)
3880	232 9756	850 3579	30 6554	4 Wed.	4 Mar (63)	47	20	7	6 Fri	20 Mar (79)
3881	204 8901	733 8937	245 0102	2 Mon	22 Feb (53)	56	32	13	O Sat .	20 Mar (79)
3882	256 2005	669 8872	279 6926	1 Sun .	12 Mar (72)	5	45	19	1 Sun .	19 Mar (79)
3883	225 3773	517 1311	155 4155	5 Thur	1 Mar (60)	14	57	1	3 Tues	20 Mar (79)
3884	273 9500	416 8330	9851 4059		19 Mar (78)	23	9	8	4 Wed	20 Mar (79)
3885	243 1167	264 0770	9727 1887		8 Mar (67)	32	21	14	5 Thur.	20 Mar (79)
3886	215 0413	147 6128	9941 5435	1	26 Feb (57)	41	33	20	6 Fm .	19 Mar (79)
3887	266 3517 238 2664	83 6062 967·1418	9976 2260 190 5807	4 Wed 2 Mon	16 Mar (75)	50 59	45 57	2 8	1 Sun 2 Mon	20 Mar (79)
3888 3889	207 4431		66 3036	6 Fra.	6 Mar (65)	8	10	15	3 Tues	20 Mar (79) 20 Mar (79)
3890	258 7535	814 3852 750 3794	100 9860	5 Thur	23 Fob (54) 13 Mar. (73)	17	22	ł	4 Wed	10 Mar (79)
3891	227 9303	597 6235	9976 7089	1	2 Mar (61)	26	34	3	6 Fm .	20 Mar (79)
3892	197 1071	444 8676	9852 4317]	19 Feb (50)	35	46	9	0 Sat	20 Mar (79)
3893	248 4175	380 8610	9887-1140	1	10 Mar (69)	44	58	15	1 Sun	20 Mar (79)
3894	218 4943	228 1051	9762 8369	2 Mon	27 Fob (58)	53	10	22	2 Mon	19 Mar (79)
3895	208 9047	164 0986	9797 5192	1 Sun .	17 Mar (76)	2		4	4 Wed	20 Mar (79)
3896	240 8194	47 6342	11 8741	6 Frı	7 Mar (66)	11	35	10	5 Thur	20 Mar (79)
3897	212 7339	931 1699	226 2289	4 Wed	25 Feb (56)	20	47	16	8 Fm	20 Mar (79)

				(CONCU	RRENT Y	EAR				
		ıkrama	solar year	1			Jovian Sai	Myatsara		Intercalated (adhila) and suppressed (lihaya) true lunar months	
Kalı	Śaka	Chartradı Vıkrama	Meshadı so		ollam	A D	Southern system			TUBEL MODES	
1	2	3	- -	3a	4	5	6	7		8	
						* 796-97	9 Yuva	n .			
3898	719	1	-	203	1		10 Dhāt		1		
3899	720	8		204		797-98	10 Diac 11 Isvai		.	3 Jyēshtha •	İ
3900	1	1		205		798-99			ı	o oyeanyma	
3901		- I -	·	206		799 800	12 Baht u3 Pran	•		7 Āśvina	
3902	1	1		207		*800 01				2207110	
3903	1	1	59	203		801 02	14 Vikr		l		
3904	1	1	360	209		802 03	I5 Vris		.	5 Šrāvana	
390			861	210		803 04		rabhānu •		Diavana	
390	ļ	- 1	862	211		*804-05	17 Sub				l
390		· }	863	212		805 06			•	3 Jyështha	
390	- 1		864	213		806 07 807 08			•	o oyesique	
390 391	1	30	865	214		*808-09		_	•		
39	1	732	867	216		809-10	i .	vajio . vadhārin	•	1 Chaitra	
39	1	733	868	217		810 11				. Casana	
	- 1	734	869	218	}	811-1	· I		_	5 Śrāvana	
	014	735	870	219		*812-1	1				
3	915	736	871	220		813-1	1	ndana .			
3	916	737	872	221		814 1	5 27 VI	ауа .		4 Āshādha .	
3	917	738	873	222	{	815 1	6 28 Ja	ув			İ
3	918	739	874	223		*816-1	17 29 M	anmatha .		1 .	
3	3919	740	875	224		817-	18 30 D	urmukha .		3 Jyështha .	,
	3920	741	876	225	;	818-	19 31 H	ēmalamba		•••	
	3921	742	877	1	3	819-	20 32 V	ilamba† .		, 7 Āśvina .	•
	3922	743	878	3 22	7	*820	21 34 Ś	ārtarin .	•		
						+ 33 V.1	beserggua eaw ara				=

^{† 33} Vikārin was suppressed.

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			(COM	MENCEMENT (OF THE							
S	OLAP YEAR	,	**************************************	,	Luvi-solar		SUNRISE OF		ON WHICH				
D13 and month A. D	Week- day	Mč.	Time of true Mësha sam kranti		Day and month A D.	Week day	a	ь	c	Kalı			
13	14	_	17		19	20	23	24	25	1			
		H	M	s			1	·		; 			
19 Mar (79)	0 Sat	22	59	29	15 Mar (75)	3 Tues	260 9113	807 1634	264 0442	3898			
20 Mar (79)	2 Mon	5	11	38	4 Mar (63)	0 Sat	136 6341	714 4074	233 2211	3899			
20 Mar (79)	3 Tues	11	23	47	21 Feb (52)	4 Wed	12 3570	561 6515	202 3979	3900			
20 Mar (70)	4 Wed	17	35	50	12 Mar (71)	3 Tues	47 0394	497 6449	253 6621	3901			
19 Mar (79)	5 Thur	23	48	5	19 Feb (60)	O Sat .	9922 7623	344 8890	222 8629	3902			
20 Mar (79)	0 Sat	6	0	14	19 Mar (78)	6 Fri .	9957 4347	280 8825	274 1733	3903			
20 Mar (79)	1 Sun	12	12	23	8 Mar (67)	3 Tues	9833 1675	128 1265	243 3500	3904			
20 Mar (79)	2 Mon	18	24	32	26 Feb (57)	1 Sun	47 5223	11 6622	215 2647	3905			
20 Mar (80)	4 Wed.	0	36	11	16 Mar (76)	O Sat -	82 2048	947 6557	266 5751	3906			
20 Mar (79)	·6 Thur	6	48	50	6 Mar (65)	5 Thur	296 5595	831 1914	238 4897	3907			
20 Mar (79)	6 Fn	13	0	59	23 Feb (54)	2 Mon .	172 2824	678 4354	207 6664	3908			
20 Mar (79)	0 Sat. •	19	13	8	14 Mar (73)	1 Sun .	206 9648	614 4289	258 9769	3909			
20 Mar (80)	2 Mon	1	25	17	2 Mar (62)	5 Thur	82 6876	461-6730	228 1537	3910			
20 Mar. (79)	3 Tues.	7	37	26	19 Feb (50)	2 Mon	9958 4105	308-9171	197 3304	3911			
20 Mar (79)	4 Wed .	13	49	35	10 Mar (69)	1 Sun	9993 0928	244-9104	248 6408	3912			
20 Mar (79)	5 Thur	20	1	44	27 Feb (58)	5 Thur	9868 8157	92 1545	217 8177	3913			
20 Mar (80)	O Sat .	2	13	52	17 Mar (77)	4 Wed	9903 4980	28 1481	269 1281	3914			
20 Mar (79)	1 Sun	8	26	1	7 Mar (66)	2 Mon	117 8529	906 6837	251 0427	3915			
20 Mar (79)	2 Mon	14	38	10	24 Feb (55)	6 Fra .	9993 5758	758 9278	210 2194	3916			
20 Mar (79)	3 Tues	20	<i>5</i> 0	19	15 Mar (74)	5 Thur	28 2581	694 9212	264 5299	3917			
20 Mar. (80)	5 Thur	3	2	28	3 Mar (63)	2 Mon .	9903 9810	542 1653	230 7067	3918			
20 Mar. (79)	6 Fn •	9	14	37	21 Feb (52)	0 Sat .	118 3358	425 7009	1	3919			
20 Mar (79)	0 Sat .	15	26	46	11 Mar (70)	5 Thur .	9814 3862	325 4028	1	3920			
20 Mar (79)	1 Sun	21	38	55	1 Mar (60)	3 Tues	28 7410	208 9389	1	3921			
20 Mar (80)	3 Tues	3	51	4	19 Mar (79)	2 Mon	63 4234	144-9321	274 3989	3922			

Kalı	Śaka	krama	year	1					
	Chaitrada Vikrama		벌	Kollam	A D	JOVIAN SAN	MVATSARA Northern		Intercalated (adh:La) and suppressed (kshaya) true lunar months
		Chartri	Mcshāc na B			system sy			
1	2	3	3a	4	5	6	7		8
3923	744	879	228		821-22	35 Plava			
3924	745	880	229		822-23	36 Śubho	akrit .	•	5 Śrāvaņa .
3925	716	881	230		823-24	37 Ś>ēho	ına .		
3928	747	882	231		*824-25	38 Krōd	hın		
3927	748	883	232	01	825 26	39 Viávā	ivasu .	•	3 Jyështha .
3928	749	884	233	1-2	826 27	40 Parã	bhava		
3729	750	885	234	2-3	827-28	41 Plave	ınga	-	
3930	751	886	235	34	*828 29	42 Kilal	ra.		1 Chaitra .
3931	752	887	236	4-5	829 30	43 Saun	ıya .	•	
3932	753	888	237	56	830 31	44 Sādh	ārana .		5" Śrāvana .
3933	1	889	238	6-7	831-32	45 Virād	lhakrit		
3734 3735		800	239	7-8	*832-33	46 Parid	lhāvın	•	
2930	1		240		833 34	47 Pran	lādın .	•	4 Āshādha
3937	1	1			834 35	48 Ānaī	nda		
393	1	1		1	835 36	49 Rāks	shasa .		,
793		1			*836 37	50 Anal	a		2 Varsākha .
391	ì	1	1		837 38	51 Pmg	ala .		
394	1			1	838 39	52 Kāla	•	•	6 Bhādrapada
371	1	1		1	1	i	hārthın	•	
234	13 70	i			1	54 Rau	•	•	
\$7	se 70	L 20	1	1	1	55 Dur	-	•	б Śrāvaņa
	ts 7/	A 60	1 27	- Į	1	DO Dan	•		•
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22 		is a	3 2	l l	1	JO Zuck	-	•	3 Jyčshtha .

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	COMMENCEMENT OF THE													
	OLAR YEAR	 P	•••••••		LUNI SOLAF	CHAR	NY SUNRISE (IRA SUKLA]	OF CIVIL DAL ENDS)	оу миісн	-				
Day and month A D	Week- day	Me	re of sha r Tant		Day and month A D	Weel -	a	6		Kal				
13	14	-	17		19	20	23	24	25	$ \begin{vmatrix} - \\ 1 \end{vmatrix}$				
		11	 M				-			-{				
20 Mar (79)	4 Wed	10	3	13	8 Mar (67)	6 Fri	9939 1463	992 1760	243 5950	3923				
20 Mar (79)	5 Thur	16	15	22	26 Feb (57)	4 Wcd	153 5010	875 7118	215 5102	3924				
20 Mar (79)	6 Fn	22	27	31	17 Mar (76)	3 Tues	188 1834	811 7052	266 8206	3925				
20 Mar. (80)	I Sun	4	39	40	5 Mar (65)	O Sat .	63 9063	658 9493	235 9975	3926				
20 Mar (79)	2 Mon	10	51	49	22 Fob (53)	4 Wed	0939 6292	506 1933	205 1642	3927				
20 Mar (79)	3 1 ucs	17	3	58	13 Mar (72)	3 Tues	£971 3115	442 1868	256 4846	3928				
20 Mar (79)	4 Wod	23	16	7	2 Mar (61)	0 Sat	9850 0344	289 4309	225 6614	3929				
20 Mar (80)	6 Frı	5	28	16	20 Feb (51)	5 Thur	64 6593	172 9666	197 5760	3930				
20 Mai (79)	0 Sat	11	40	25	10 Mar (69)	1 Wed	98 8015	108 9590	248 8864	3931				
20 Mar (79)	1 Sun	17	52	34	27 Feb (58)	I Sun	9974 7944	956 2040	218 0632	3932				
21 Mar (80)	3 Tucs	0	4	43	18 Mar (77)	0 Sat	9 4768	892 1976	269 3736	3933				
20 Mar (80)	4 Wod	6	16	52	7 Mar (67)	5 Thur	223 8317	775 7333	241 2883	3934				
20 Mar (79)	5 Thur	12	29	1	24 Feb (55)	2 Mon	99 5545	622 9773	210 4650	3935				
20 Mar (79)	6 Fri	18	41	10	15 Mar (74)	1 Sun	134 2369	558 9708	261 7754	3936				
21 Mar (80)	1 Sun	0	53	19	4 Mar (63)	5 Thur	9 9598	406 2148	230 9522	3937				
20 Mar (80)	2 Mon	7	5	28	21 Feb (52)	2 Mon	9885 6826	253 4589	200 1290	3938				
20 Mar (79)	3 Tues	13	17	37	11 Mar (70)	1 Sun	9920 3649	189 4523	252 4294	3939				
20 Mar (79)	4 Wed	19	29	46	28 Feb (59)	5 Thur	9796 0878	36 6964	220 6162	3940				
21 Mar (80)	6 Fri	1	41	55	20 Mar (79)	5 Thur	169 4022	8 9816	274 6644	3941				
20 Mar (80)	0 Sat	7	54	4	8 Mar (68)	2 Mon	45 1250	856 2255	213 8412	3942				
20 Mar (79)	1 Sun	14	6	13	26 Feb (57)	0 Sat	250 4798	739 7613	215 7558	3943				
29 Mar. (79)	3 Mon	20	18	22	17 Mar (76)	6 Fn	294 1622	675 7547	267 0662	3944				
21 Mar (80)	4 Wed	2	30	31	6 Mar (65)	3 Tucs	169 8851	522 9988	236 0990	3945				
20 Mar (80)	5 Thur	8	42	40	23 Feb (54)	0 Sat	45 5979	370 2428	205 4197	3946				
20 Mar (79)	6 Fra	14	51	49	13 Mar (71)	5 Thur	9741 6583	269 9446	253 9924	3947				

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COMMENCEMENT OF THE													
(Solab year	•		Luni solar y	TEAR (MEAN : CHAITBA	SUNRISE OF SUKLA 1 EN	CIVIL DAY (on Which					
Day and month A D	Week- day,	Müsha	of true sam- nti.	Day and month A. D	Wcek-day.	a	b	0	Kalı				
13	14	17		19	20	23	24	25	1				
20 Mar (79)	O Sat		M S	2 Mar (61)	3 Tues	9956-0132	153 4804	226 0070	3948				
21 Mar (80)	2 Mon	3 1	9 7	19 Feb (50)	O Sat.	9832 2167	0 7839	195 0837	3949				
20 Mar (80)	3 Tues	9 3	1 16	10 Mar (70)	O Sat	205 0503	978-0095	249 2319	3950				
20 Mar (70)	4 Wed.	15 4	3 25	27 Feb (58)	4 Wed	80 7732	820 2535	218 4088	3951				
20 Mar. (79)	5 Thur	21 5	5 34	18 Mar (77)	3 Tues	115 4556	756 2470	269 6192	3952				
21 Mar (80)	OSat .	4 1	7 43	7-Mar (66)	0 Sat.	9991 1784	603 4911	238 7960	3953				
20 Mar (80)	1 Sun .	10 1	52	24 Feb (55)	4 Wed	9866 9013	450-7353	207 9727	395%				
20 Mar (79)	2 Mon .	16 3	2 1	14 Mar (73)	3 Tues.	9900 5837	386 7286	259 2832	3955				
20 Mar (79)	3 Tues	22 4	9 10	3 Mar (62)	O Sat	9777 3065	233 9727	228 4600	3956				
21 Mar (80)	5 Thur	4 5	3 19	21 Feb (52)	5 Thur	9991 6613	117 5084	200 3745	3957				
20 Mar (80)	6 Fra.	11 (3 28	11 Mar (71)	4 Wed	26 3437	<i>53 5</i> 018	251-6849	3958				
20 Mar (79)	O Sat.	17 20	37	1 Mar. (60)	2 Mon	240 4285	937 0375	223 5995	3959				
20 Mar. (72)	1 Sun	23 3	2 45	20 Mar. (79)	1 Sun	275 3809	873 0310	274-9100	3960				
21 Mar (80)	3 Tues	5 4	54	9 Mar (68)	5 Thur	151 1038	720-2751	244 0867	3961				
20 Mar (80)	4 Wed	11 57	7 3	26 Feb (57)	2 Mon	26 8266	567-5191	213 2635	396 P				
20 Mar (79)	5 Thur	18 (12	16 Mar (75)	1 Sun	61 5090	503 5126	264 5739	3963				
21 Mar (80)	0 Sat.	0 2	21	5 Mar. (64)	5 Thur	9937 2318	350 7566	233 5708	3964				
21 Mar (80)	18an .	6 3	3 30	22 Feb (53)	2 Mon.	9812 9547	198 0007	202 9275	3965				
20 Mar (80)	2 Mon	12 4	39	12 Mar. (72)	1 Sun.	9847 6371	132 9941	254 2379	3966				
20 Mar (79)	3 Tues	18 5	7 48	2 Mar (61)	6 Fra	61 9919	17 5299	226 1525	3967				
21 Mar. (80)	5 Thur.	1 1	57	19 Feb (50)	3 Tues	9937 7149	864 7741	195 8293	3968				
21 Mar (80)	6 Fra	7 2	8 9	11 Mar (70)	3 Tues	311 0291	837 0590	249 3775	3969				
20 Mar (80)	0 Sat	13 34	15	28 Feb (59)	0 Sat.	186 7519	684 3031	218 5543	3970				
20 Mar (79)	1 Sun	19 4	3 24	18 Mar (77)	6 Fri	221 4343	620-2965	269 8647	3971				
21 Mar (80)	3 Tues.	1 5	3 33	7 Mar (66)	3 Tues	97 1572	467 5406	239 0416	3972				

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				COMMENCEME	ENT OF TH	E.			
	Solab year	•	·	Luni solar x		SUNRISE OF SUKLA 1 EN		HOTHW RO	
Day and month A.D	Week- day.	Mesh	of tru a sam anti.		Week-day	a	δ	0	Kalı
13	14	1	7	19	20	23	24	25	1
20 Mar (79)	O Sat.	H 21	M S 6 58	2 Mar. (61)	3 Tues	9956 0132	153 4804	226 0070	3948
21 Mar (80)	2 Mon	3	19 7	19 Feb (50)	0 Sat	9832 2167	0.7839	195 0837	3949
20 Mar (80)	3 Tues.	9 ;	31 16	10 Mar (70)	O Sat.	205 0503	973 0095	249 2319	3950
20 Mar. (79)	4 Wed.	15	43 25	27 Feb (58)	4 Wed	80 7732	820 2535	218 4088	3951
20 Mar (79)	5 Thur	21	55 34	18 Mar (77)	3 Tues	115 4556	756 2470	269 6192	3952
21 Mar (80)	OBat.	4	7 43	7-Mar (66)	O Sat.	0991 1784	603 4911	238 7960	3953
20 Mar (80)	1 Sun	10	19 52	24 Feb (55)	4 Wed.	9866 9013	450 7353	207-9727	3954
20 Mar (79)	2 Mon.	16	32 1	14 Mar. (73)	3 Tues.	9900-5837	386 7286	259 2832	3955
20 Mar. (79)	3 Tues.	22	49 10	3 Mar (62)	0 Sat.	9777 3065	233 9727	228 4600	3956
21 Mar (80)	5 Thur.	4	56 19	21 Feb (52)	5 Thur	9991 6613	117 5084	200 3745	3957
20 Mar (80)	6 Fm	11	8 28	11 Mar. (71)	4 Wed.	26 3437	53 5018	251-6849	3958
20 Mar (79)	O Sat.	17	20 37	1 Mar. (60)	2 Mon	240-4285	937 0375	223 5995	8959
20 Mar. (79)	1 Sun.	23 ;	32 45	20 Mar. (79)	1 Sun	275 3809	873.0310	274-9100	3960
21 Mar (80)	3 Tues.	5	44 54	9 Mar. (68)	5 Thur	151 1038	720-2751	244 0867	3961
20 Mar (80)	4 Wed.	11 (57 3	28 Feb (57)	2 Mon	26 8266	587-5191	213 2635	396₽
20 Mar. (79)	5 Thur	18	9 12	16 Mar. (75)	1 Sun	61 5090	503 5126	264 5739	3963
21 Mar (80)	0 Sat .	0 :	21 21	5 Mar. (64)	5 Thur.	9937 2318	350-7566	233 5708	3964
21 Mar (80)	1 Sun	6	33 30	22 Feb (53)	2 Mon	9812 9547	198 0007	202-9275	3965
20 Mar (80)	2 Mon	12	45 39	12 Mar (72)	1 Sun.	9847 6371	132 9941	254 2379	3966
20 Mar. (79)	3 Tues .	18	57 48	2 Mar (61)	6 Fri.	61 9919	17-5299	226 1525	3967
21 Mar (80)	5 Thur.	1	9 57	19 Feb (50)	3 Tues	9937 7149	864 7741	195 8293	3968
21 Mar. (80)	6 Fr	7	22 6	11 Mer (70)	3 Tues	311 0291	837 0590	249 3775	3969
20 Mar. (80)	O Sat.	}	34 15	28 Feb (59)	0 Sat	186 7519	684 3031	218 5543	3970
20 Mar (79)	1 Sun	1	46 24	18 Mar (77)	6 Eri	221 4343	620-2965	269 8647	3971
21 Mar (80)	3 Tues	1	58 33	7 Mar (66)	3 Tues	97 1572	467 5406	239 0416	3972

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			C	OMIM	ENCEMENT C	F THE				
Solai	R YEAB				LUNI-SOLAR	YEAR (MEAI CHAITE	n sunrise o La śukla 1 e	F CIVIL DAY NDS)	ON WHICH	
Day and month A D.	Wock- day	Μč	e of sha s crant	am-	Day and month A. D.	Week- day	a	<i>b</i>	c	Kalı.
13	14	-	17		19	20	23	24	25	1
21 Mar (80) 20 Mar. (80)	4 Wed 5 Thur .	H 8 14	M. 10 22	8 42 51	24 Fob (55) 14 Mar. (74)	0 Sat	9972 8801 7 5624	313 7846 250 7781	208 2183 259 5087	1
20 Mar (79)	6 Fri .	20	35	0	3 Mar (62)	3 Tues	9883 2853	98 0222	228 7055	3975
21 Mar (80)	1 Sun	2	47	9	21 Feb (52)	1 Sun	97-6401	981 5579	200 6101	3976
21 Mar (80)	2 Mon.	8	59	18	12 Mar (71)	0 Sat	132 3224	917 5514	251 9305	3977
20 Mar (80)	3 Tues .	15	11	27	29 Feb (60)	4 Wed	8 0453	764 7954	221 1072	3978
20 Mar (79)	4 Wed	21	23	36	19 Mar (78)	3 Tues	42 7277	700 7889	272 4177	3979
21 Mar. (80)	6 Fri .	3	35	45	8 Mar (67)	0 Sat .	9918 4506	548 0330	241 5146	3980
21 Mar (80)	0 Sat	9	47	54	26 Feb. (57)	5 Thur	132 8053	431 5686	213 5091	3981
20 Mar (80)	1 Sun .	16	0	3	15 Mar. (75)	3 Tues	9828 8558	331 2705	262 0817	3982
20 Mar. (79)	2 Mon	22	12	12	5 Mar. (64)	1 Sun	43 2106	214 8061	234 0013	3983
21 Mar (80)	4 Wed	4	24	21	22 Feb (53)	5 Thur	9918 9335	62 0502	203 1731	3984
21 Mar (80)	5 Thur	10	36	30	13 Mar (72)	4 Wed	9953 6158	998 0436	254 4835	3985
20 Mar (80)	6 Fri	16	48	39	2 Mar (62)	2 Mon	167 9707	881 5794	226 3980	3986
20 Mar (79)	0 Sat .	23	0	48	19 Feb. (50)	6 Fra	43 6936	728 9235	195 5748	3987
21 Mar (80)	2 Mon .	5	12	57	10 Mar (69)	5 Thur	78 3759	664 8169	246 7165	3988
21 Mar (80)	3 Tues	11	25	6	27 Feb (58)	2 Mon	9954 0987	512 0610	216 0621	3989
20 Mar (80)	4 Wed	17	37	15	17 Mar (77)	I Sun	9988 7811	448 0544	267 3724	3990
20 Mar (79)	5 Thur	23	49	24	6 Mar (65)	5 Thur.	9864 5040	294 2984	236 5493	3991
21 Mar (80)	0 Sat .	6	1	33	23 Feb (54)	2 Mon	9740 2268	142 5426	205 7261	3992
21 Mar (80)	1 Sun	12	13	42	14 Mar (73)	1 Sun.	9774 9092	78 5360	257 0365	3993
20 Mar (80)	2 Mon	18	25	51	3 Mar (63)	8 Fr:	9989 2641	962 0717	228 9510	3994
21 Mar (80)	4 Wed	0	38	0	21 Feb (52)	4 Wed	203 6198	845 6075		3995
21 Mar. (80)	5 Thur .	6	50	9	12 Mar (71)	3 Tues	238 3012	781-6009		3996
21 Mar. (80)	6 Fm	31	2	18	1 Mar (60)	0 Sat	114 0241	628 8449	221 3528	3997

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			(COM	MENCEMENT	OF THE				1
£	SOLAR YEAR				Luni-solar	YEAR (MEA	n sunrise o A śurla 1 e	F CIVIL DAY NDS)	ON WHICH	
Day and month A D	Week- day	Mc	e of sha-s rant		Day and month A D	Week- day	a	ь	c	Kalı.
13	14		17		19	20	23	24	25	1
		H	M	S			 			
20 Mar (80)	0 Sat	19	14	27	19 Mar. (79)	6 Fr	148 7064	564 8384	272 6632	3998
21 Mar (80)	2 Mon	1	26	36	8 Mar (67)	3 Tues	24 4293	412 0825	241 8401	3999
21 Mar (80)	3 Tues	7	38	45	25 Feb (56)	0 Sat .	9900 1522	259 3266	211 0169	4000
21 Mar (80)	4 Wed	13	50	54	16 Mar (75)	6 Fr:	9934 8345	195 3200	262 3050	4001
20 Mar (80)	5 Thur	20	3	3	4 Mar (64)	3 Tues	9810 5573	42 5640	231 4818	4002
21 Mar (80)	0 Sat	2	15	12	22 Feb (53)	1 Sun	24 9122	926 0997	203 3963	4003
21 Mar (80)	1 Sun	8	27	21	13 Mar (72)	O Sat .	59 5945	862 0930	254 7067	4004
21 Mar (80)	2 Mon	14	29	29	3 Mar (62)	5 Thur	273 9494	745 6289	226 6213	4005
20 Mar (80)	3 Tues	20	51	38	20 Mar (80)	3 Tues	9969 9998	645 3307	275 1940	4006
21 Mar (80)	5 Thur	3	3	47	10 Mar (69)	1 Sun	184 3546	528 8665	247 1085	4007
21 Mar (80)	6 Frı	9	15	56	27 Feb (58)	5 Thur	60 0774	376 1105	216 2853	4008
21 Mar (80)	0 Sat	15	28	5	17 Mar (76)	3 Tues	9756 1279	275 8123	264 8579	4009
20 Mar (80)	1 Sun	21	40	14	6 Mar (66)	1 Sun	9970 4827	159 3479	236 7726	4010
21 Mar (80)	3 Tues	3	52	23	23 Feb (54)	5 Thur	9846 2055	6 5921	205 9493	40]1
21 Mar (80)	4 Wed	10	4	32	14 Mar (73)	4 Wed	9880 8879	942 5855	257 2597	4012
21 Mar (80)	5 Thur	16	16	41	4 Mar (63)	2 Mon	95 2428	826 1212	229 1743	4013
20 Mar (80)	6 Fra .	22	28	50	22 Feb (53)	O Sat .	309 5975	709 6569	201 0889	4014
21 Mar (80)	1 Sun .	4	40	59	11 Mar (70)	5 Thur	5 6479	609 3587	249 6615	4015
21 Mar (80)	2 Mon	10	53	8	28 Feb (59)	2 Mon	9881 3708	456 6028	218 8383	4016
21 Mar (80)	3 Tues	17	5	17	19 Mar (78)	1 Sun .	9916 0531	392 5962	270-1487	4017
20 Mar (80)	4 Wed.	23	17	26	7 Mar (67)	5 Thur.	9791 7760	239 8403	239 3256	4018
21 Mar. (80)	6 Fri .	5	29	35	25 Feb (56)	3 Tues	6 1309	123 3760	211 2401	4019
21 Mar (80)	0 Sat .	111	41	44	16 Mar. (75)	2 Mon .	40 8133	59 3695	262 5505	4020
21 Mar (80)	1 Sun .	17	53	53	5 Mar (64)	6 Fra .	9916 5360	906 6135	231 6273	4021
21 Mar. (81)	3 Tues.	0	6	2	23 Feb (54)	4 Wed	130 8909	790 1493	203 6419	4022

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						NCUR	RENT Y	<u></u>						
			rama	r year					JOVIAN S		VATSAP A	(ntercalated adhika) and auppressed kanaa) true	
Kalı	Sak	rs.	Chaitrādi Vikrama	Meshadı solar ın Bengal	Kolla	m	A D		Southern system		Northern system	lù	nar months	
1	2	2	3	3a	4		5		6	_ _	7		8	
4023	8	44	979	328	96	97	921-22	15	Vrislia .		16 Chitrabhānu .			
4024	8	345	980	329	97	98	922-23	16	Chitrabhānu		17 Subhānu	7	Afrina .	
4025	1	846	981	330	98	-99	923 24	17	Subhānu		18 Tārana .			
4026	}	847	982	331	99	100	*924-25	18	Tārana		19 Pärthiva .		•	1
4027	į	848	983	332	100	0 01	925 26	19	Pārthwa	•	20 Vynya	5	Stāvana .	
402	8	849	984	333	3 10	1-02	926 27	20) Vyaya	•	21 Sarvajit			l
402	8	850	988	5 33	4 10	2-03	927-28	2	l Sarvajit		22 Sarvadhärin .			
403	10	851	98	8 33	5 10	3 04	*928-29	2	2 Sarvadhārın	1	23 Virödhin .	3	Jyčshtha .	
403	31	852	98	7 33	6 10	14-05	929 30	2	3 Virōdhin	•	24 Vikrita			1
40	32	853	88	8 33	17 10	05 06	930 31	2	4 Vikrita.	•	25 Khara .		•	l
40	33	854	£ 98	39 \ 3	38 1	06 07	931-32	2 2	5 Khara		26 Nandana	1	? Vaisākha .	
40	34	85	5 9	90 3	39 1	07-08	*932 33	1	6 Nandana		27 Vijaya	1	•	
40	35	85	- { ·	}	· {	.08 09	933 34	1	27 Vijaya	•			6 Bhādrapada	
-	036	85	" `	` }	}	109-10	934-3	- 1	28 Jaya	•	29 Manmatha	١	•	
-	037	1	· []	1	1	110-11	935 3	` {	29 Manmatha 30 Durmukht		30 Durmukha	.	, , , , , , , , , , , , , , , , , , , ,	
	1038 1039	1	-	}	344	111-12 112-13	1	- 1	31 Hēmalam		. 31 Hēmalamba		4 Āshādha	•
	4040	1	l	996	345	113-14	1	ı	32 Vilamba	UL	. 33 Vikārin			
	4041	1	862	997	346	114-18	}	- 1	33 Vikārin		. 34 Särvarın		3 Jyčshtha	_
	4042	1	863	998	347	115-10	Į.		34 Särvarın		35 Plava .		2	•
	404	3	864	999	348	116 1	7 941-	42	35 Plava .		. 36 Subhakrit		7 Āšvina	
	404	4	865	1000	349	117-1	8 942	43	36 Subhakri	t	. 37 Sobhana			
	404	15	866	1001	350	118-1	943	44	37 Sõbhana	ı	38 Krôdhin		•	
	40	1	867	1002	351	119 2	l l	45	1		. 39 Viśvāvasu	•	5 Śrāvaņa	•
	40	47	868	1003	352	120	21 945	5-46	39 Viávāvas	su	40 Parābhava	•	•	

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			C	CIKO	iencement (OF THE				
S	Solar Year	•			Luni-solar	YFAR (MEA) CHAITR	n sunrise of A évela 1 es	CIVIL DAY	on which	
Day and month A D	Week- day	Mi	e of sha-s rant	ain	Day and month A D	Week- day	а	ь	c	Kelı
13	14	_	17		19 &	20	23	24	25	1
		H	M	ร	· · · · · · · · · · · · · · · · · · ·					Ì
21 Mar (80)	4 Wed	6	18	11	13 Mar (72)	3 Tues	165 5733	726 1427	254 9523	4023
21 Mar (80)	5 Thur	12	30	20	2 Mar (61)	0 Sat	41 2961	573 3868	224 1290	4024
21 Mar (80)	6 Frı	18	42	29	21 Mar (80)	6 Frı	75 9785	509 3802	275 4395	2025
21 Mar (81)	1 Sun	0	54	38	9 Mar (69)	3 Tues	9951 7014	356 6243	244 6163	4026
21 Mar (80)	2 Mon .	7	6	47	26 Feb (57)	0 Sat	9827 4242	203 8683	213 7931	4027
21 Mar (80)	3 Tues	13	18	56	17 Mar (78)	6 Fr:	9862 0966	139 8618	265 1034	4028
21 Mar (80)	4 Wed	19	31	5	7 Mar (66)	4 Wed	76 4614	23 3975	237 0181	4029
21 Mar (81)	6 Fri .	1	43	14	24 Feb (55)	1 Sun	9952 1843	870 6416	206 1949	4030
21 Mar (80)	0 Sat	7	55	23	14 Mar (73)	0 Sat	9986 8666	806 6351	257 5053	4031
21 Mar (80)	1 Sun .	14	7	32	4 Mar (63)	5 Thur	201 2215	690 1707	229 4198	4032
21 Mar (80)	2 Mon	20	19	41	21 Teb (52)	2 Mon	76 9443	537 4148	198 5966	4033
21 Mar (81)	4 Wed	2	31	50	11 Mar (71)	1 Sun	111 6267	473 4083	249 9071	4034
21 Mar (80)	5 Thur	8	43	59	28 Feb (59)	5 Thur	9987 3495	320 6523	219 0839	4035
21 Mar (80)	6 Fri	14	56	8	19 Mar (78)	4 Wed	22 0319	256 6458	270 3942	4036
21 Mar (80)	0 Sat	21	8	17	8 Mar (67)	1 Sun	9897 7548	103 8898	239 5711	4037
21 Mar (81)	2 Mon	3	20	26	26 Feb (57)	6 Frı	112 1097	987 4256	211 4857	4038
21 Mar (80)	3 Tues	9	32	35	16 Mar (75)	5 Thur	146 7920	923 4190	262 7961	4039
21 Mar (80)	4 Wed	15	44	44	5 Mar (64)	2 Mon	22 5148	770 6630	231 9729	4040
21 Mar (80)	5 Thur	21	56	<i>5</i> 3	23 Feb (54)	0 Sat	236 8697	654 1988	203 8874	4041
21 Mar (81)	O Sit .	4	9	2	12 Mar (72)	5 Thur	9932 9200	553 9006	252 4601	4012
21 Mar (80)	1 Sun	10	21	11	1 Mar (60)	2 Mon	9808 6429	401 1447	221 6368	4043
21 Mar (80)	2 Mon	16	33	20	20 Mar (79)	1 Sun	9843 3253	337 1381	272 9473	4044
21 Mar (80)	3 Tues	22	45	29	9 Mar (68)	5 Thur	9719 0482	184 3821	242 1240	4045
21 Mar (81)	5 Thur	4	57	38	27 Feb. (58)	3 Tues	9933 4029	67 9178	214 0386	4046
21 Mar (80)	6 Fri	11	9	47	17 Mar (76)	2 Mon	9968 0854	3 9113	265 3490	4047
	يسيب			===		<u> </u>		:		

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		1	eme	year					Jovian Sam	TAV	SARA	Intercalated (adhika) and suppressed
Kalı	Sak	KB. \	Chartrádı Vikrama	Meshadı solar ın Bengal	Koll	am	A D		Southern system		Northern system	(Lshaya) true lunar months
1	-	2	3	3a	1	<u> </u>	5		6	_ _	7	8
4048	-	369	1004	353	12	1-22	946 47	40	Parābhava		41 Plavanga .	
4049		870	1005	354	12	2-23	947-48	41	Plavanga		42 Kilaka .	3 Jyështha •
405		871	1006	355	12	3 24	*948-49	42	Kilaka .		43 Saumya .	1
405	1	872	1007	356	3 12	4 25	949-50	43	Saumya		44 Sädhärana .	
405	2	873	1008	357	7 15	25 26	950 51	44	Sādhārana		45 Vırödhakrıt	1 Chaitra •
408	i3 \	874	1009	35	8 1	26 27	951-52	48	Virodhakrit	}	46 Paridhāvin	•
40	54	875	1010	35	9 1	27-28	*952 53	46	Paridhāvin		47 Pramādin .	5 Srāvana
40	55 	876	101	1 36	0 1	28 29	953 54	4	Pramādin		48 Ananda .	
40	56	877	101	2 36	51 1	29 30	954 55	4	8 Ananda		49 Rākshasa	
40	157	878	101	3 36	32 1	130 31	955 56	3 4	9 Rākshasa	•	50 Anala .	4 Āshādha •
40	058	879	101	4 3	63	134 32	*956 5	7 5	0 Anala	•	51 Pingala	•
4	059	880	10	15 3	64	132-33	957-5	3 8	l Pingala		52 Kālayukta	•
	060	881		} _	65	133 34	958 5	- 1	52 Kālayukta		53 Siddhärthin	. 3 Jyështha •
	1061	885		_ _	366	134-35	959-6	1	53 Siddhārthin	ı	54 Raudra	•
	1002	88		1	367	135 36	*960	``}	54 Raudra		55 Durmatı	. 7 Āśvina
	4063 4064	ì	- t	•	368	136 37	961	- 1	55 Durmatı		56 Dundubhi	
	4065	1	- 1	.021	369 370	137 38 138 39	1	- 1	56 Dundubhi57 Rudhirödg	2	57 Rudhirödgäri 58 Raktāksha	4 Āshāḍha†
	4060	1	- 1	022	571	139 40	1	- }	58 Raktāksha		59 Krödhana	
	4067	- }	- 1	1023	372	140 41	1	- {	59 Krödhana		60 Kshaya	
	406	8 8	1	1024	373	141 4		j	60 Kshaya		l Prabhava	. 3 Jyeshtha
	406	9 1	008	1025	374	142 4	3 967	-68	1 Prabhava		2 Vibhava	
	407	0	891	1026	375	143 4	4 *968	69	2 Vibhava		3 Sukla	12 Phâlguna† .
	407	- 1	892	1027	376	144 4	5 969	9-70	3 Šukla .		4 Pramōda	
	40	72	893	1028	377	145-4	970)-71	4 Pramoda		. 5 Prajāpatı	

[†] See "Remarks" above, on the page preceding the Table

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				CO	MVENCEMEN	T OF TH	8			
	Solar ye	AR.			Luni-sol	AR 3 FAR (M. Cha	Fan Sunrise Itra éukla	of civil da l ends).	Y ON WHICH	ı
Day and month A. D	Week- day			f true sain iti	Day and month, A	Week day	. a	6	c	Kalı
13	14		17	· · · · · · · · · · · · · · · · · · ·	19	20	23	24	25	1
21 Mar (80) 21 Mar (80) 21 Mar (81) 21 Mar (80) 21 Mar (80) 22 Mar (81) 21 Mar (80) 21 Mar (80) 21 Mar (80) 21 Mar (80) 22 Mar (81) 21 Mar (81) 21 Mar (81) 21 Mar (81) 21 Mar (81)	O Sat . 1 Sun 3 Tues 4 Wed 5 Thur 0 Sat 1 Sun 2 Mon 3 Tues 5 Thur 6 Fri . 0 Sat . 1 Sun .	H 17 23 5 11 18 0 6 12 18 1 7 13	M 21 34 46 59 11 23 35 47	S 566 5 5 13 40 49 58 7 16 25 34 43	7 Mar (66) 24 Feb (55) 14 Mar (74) 3 Mar (62) 20 Feb (51) 11 Mar (70) 28 Feb (59) 18 Mar (77) 8 Mar (67) 26 Feb (57) 16 Mar (76) 5 Mar (64) 22 Feb (53)	O Sat 4 Wed 3 Tues O Sat 4 Wed 3 Tues O Sat 6 Fri 4 Wed 2 Mon 1 Sun 5 Thur 2 Mon	182 4403 58 1630 92 8454 9968 5683 9844 3115 9878 9735 9754 6963 9789 3787 3 7335 218 0884 252 7708 128 4936 4 2164	2 887 447 734 6910 670 684 517 9286 2 365 1727 301 1662 148 4102 84 4037 967 9394 851 4750 787 4685 634 7125 481 9566	0 237 263 0 206 440 6 257 750 6 226 927 7 196 1044 2 247 4148 2 216 5916 267 9020	7 4048 4 4049 8 4050 6 4051 4 4052 4 4053
22 Mar (81) 21 Mar (81) 21 Mar (80)	3 Tues 4 Wed 5 Thur	8 14	59 12 24	52 1 10	13 Mar (72) 1 Mar (61) 20 Mar (79)	1 Sun . 5 Thur 4 Wed	38 8988 9914 6217 9949 3040	417 9502 265 1942 201 1877	252 7056 221 8823 273 1828	4061 4062 4063
21 Mar (80) 22 Mar (81) 21 Mar (81)	6 Fri 1 Sun 2 Mon	20 2 9	36 48 0	19 28 37	9 Mar (68) 27 Feb (55) 17 Mar (77)	1 Sun 6 Fri 5 Thur	9825 0269 39 3817 74 0642	48 5316 931 9674 867 9608	1	4064 4065 4066 4067
21 Mar (80) 21 Mar (80) 22 Mar (81) 21 Mar (81)	3 Tues 4 Wod 6 Fri 0 Sat	15 21 3 9	12 24 37 49	46 55 4 13	7 Mar (66) 24 Feb (55) 15 Mar (74) 3 Mar (63)	3 Tues. 0 Sat 6 Fra 3 Tues	288 4189 -164 1418 198 8042 74 5470	751 4956 598 7406 534 7341 381 9782	206 6860 257 9964 227 1731	4068 4069 4070
21 Mar (80) 21 Mar (80)	1 Sun 2 Mon	16 22	1 13	22 31	21 Mar (80) 11 Mar (70)	1 Sun 6 Fri	9770 5974 9984 9522	281 6799 616 2156	1	4071 4072

TABLE

		2 ******		CONCU	IRRENT)	EAR		
		krama	ır year			Joviah Sa	A TARTA / IG	Interestated (adhika) and suppressed
Kalı	Saka	Chaitrādi Vikrama	Mësh'idi solar i in Bongal	Kollam	A D	Southern system	Northern system.	(Felinga) true lunar months,
1	2	3	3a	4	5	6	7	8
4073	894	1029	378	146 47	971 72	5 Prajāpatı .	6 Angiras .	5 Krāvana .
4074	895	1030	379	147-48	*972 73	6 Angiras .	7 Šrimukha .	•
4075	896	1031	380	148 49	973 74	7 Srīmukha	8 Bhāva	•
4076	897	1032	381	149 50	974-75	8 Bhāva	9 Yuvan .	4 Äshādha .
4077	898	1033	382	150 51	975-76	9 Yuvan .	10 Dhātri	
4078	899	1034	383	151 52	*976 77	10 Dhätri .	11 Israra	•
4079	900	1035	384	152 53	977-78	11 Isvara	12 Bahudhānya	2 Vamākha .
4080	901	1036	385	-153 54	978 79	12 Bahudhānya .	13 Pramāthin .	
4081	902	1037	386	154-55	979 80	13 Pramāthin	14 Vikrama .	6 Bhādrapada
4082	903	1038	387	155-56	*980 81	14 Vikrama	15 Vrisha	•
4083	904	1039	388	156 57	981 82	15 Vrisha .	16 Chitrabhanu .	
4084	905	1040	389	157 58	982-83	16 Chitrabhanu .	17 Subhānu .	4 Ashūdha†† .
4085	906	1041	390	158 89	983 84	17 Subhānu .	18 Tārana	
4086	907	1042	391	159 60	* 984 85	18 Tārana	19 Pärthus	
4087	908	1043	392	160 61	985 86	19 Pārthiva	20 Vyaya .	3 Jyështha .
4088	1	1044	393	161 62	986 87	20 Vyaya .	21 Sarvajit	
4089]	}	394	162 63	987-88	21 Sarvajit	22 Sarvadhārın	
4090		}	395	163 64	*988 89	22 Sarvadhārın	23 Virodhin	1 Chastra
4091	"	1047	396	164 65	989-90	23 Virödhin	24 Vikrita†	- 0
4092		-0-0	397	165-66	990 91	24 Vikrita	26 Nandana	5 Śrāvana
4093	1		398	166 67	991 92	25 Khara	27 Vijaya	- Comming
4094			1 -00	167 68	*992 93	26 Nandana .	1	•
4006	1		1	168 69	993 94	27 Vijaya .	29 Manmatha	4 Äshādha
4098			1	169-70	994-95	28 Jaya .	30 Durmukha	
409	7 918	1053	402	170 71	995 96		31 Hēmalamba	

^{† 25} Khara was suppressed in the north †} See "Remarks" on page preceding the Table.

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No 11]

			(COM	MENCEMENT	OF THE				
8	OLAB YEAR		<i></i>		Luni-solab		S SUNRISE OF A SURLA 1 E		ON WHICH	
Day and month A D	Week- day	Mě	e of that rant		Day and month A D.	Weok- day	а	ь	С	Kab.
13	14		17		19	20	23	24	25	1
		H	M.	<u>s</u>						1-
22 Mar (81)	4 Wed	4	25	40	28 Feb. (59)	3 Tues	9860 6751	12 451-	217 8372	4073
21 Mar. (81)	5 Thur	10	37	49	18 Mar (78)	2 Mon	9895 3574	948 4532	268 0475	4074
21 Mar (80)	6 Fn	16	49	58	8 Mar (67)	O Sat .	109 7123	831 9889	240 0622	4075
21 Mar (80)	0 Sat	23	2	7	25 Feb (56)††	4 Wed.	9985 4352	679 2329	209 2390	4076
22 Mar (81)	2 Mon	5	14	16	16 Mar. (75)	3 Tues	20 1175	015 2264	260 5494	4077
21 Mar (81)	3 Tues	11	26	25	4 Mar (64)	0 Sat	9895 8404	462-4704	229 7261	4078
21 Mar (80)	4 Wed	17	38	34	21 Fob (52)	4 Wed .	9771 5632	309 7145	198 9029	4079
21 Mar (80)	5 Thur	23	50	43	12 Mar (71)	3 Tues .	9806 2456	245 7080	250 2134	4080
22 Mar (81)	0 Sat .	6	2	52	2 Mar (61)	1 Sun .	20 6001	129 2437	222 1279	4081
21 Mar (81)	1 Sun	12	15	1	20 Mar (80)	0 Sat	55 2828	65 2372	273 4383	4082
21 Mar (80)	2 Mon	18	27	10	9 Mar (68)	4 Wed •	9931 0057	912 4811	242 6151	4083
22 Mar (81)	4 Wed	0	39	19	27 Feb (58)	2 Mon •	145 3605	796 0169	214 5298	4084
22 Mar (81)	5 Thur	6	51	28	18 Mar (77)	1 Sun •	180 0429	732 0103	265 8401	4085
21 Mar (81)	6 Fri	13	3	37	6 Mar (66)	5 Thur, •	55 7657	579 2544	235 0169	4086
21 Mar (80)	0 Sat .	19	15	46	23 Feb (54)	2 Mon ·	9931 4886	426 4985	204 1937	4087
22 Mar (81)	2 Mon	1	27	55	11 Mar (73)	1 Sun •	9966 1709	362 4919	255 5042	4088
22 Mar (81)	3 Tues	7	40	4	3 Mar (62)	5 Thur	9841 8938	209 7360	224 6809	4089
21 Mar. (81)	4 Wed	13	52	13	21 Feb (52)	3 Tues	56 2487	93 2717	196 5954	4090
21 Mar (80)	5 Thur	20	4	22	11 Mar (70)	2 Mon	90 8310	29 2651	247 9059	409
22 Mar (81)	0 Sat	2	16	31	28 Feb (59)	6 Frı	9966 0538	870 5093	217 0828	4092
22 Mar, (81)	1 Sun .	8	28	40	19 Mar (78)	5 Thur	1 3372	812 5027	268 3931	4093
21 Mar (81)	2 Mon	14	40	49	8 M2r (68)	3 Tues	213 6911	096 0384	240 3077	4094
21 Mar (80)	3 Tues	20	52	58	25 Fob (56)	0 Sat	91 4139	543 2825	209 4845	4095
22 Mar (81)	5 Thur	3	5	6	16 Mar (75)	6 Frı	126 0953	479 2759	260 79 <i>5</i> 0	4095
22 Mar (81)	6 Fm .	0	17	15	5 Mar (64)	3 Tues	1 8192	326 5199	229 9717	4097

					CONCU	RRENT Y	ear.			1	
		Vikrama	year				Jovian S.	V3t.	ATSARA	1	Interestated (adhika) and suppressed
Kalı	Saka	Chastrādi Vik	Mēshādi soļar	in Bengal	Kollam	A D.	Southern system.	-	Northern system		(L haya) true lunir months
1	2	3	3	a	4	5	6	-	7		8
4098 4099	919 920	105			171-72 172-73	*996 97 997-98	30 Durmukha .		32 Vilamba 33 Vikārin	•	2 Vaifākha .
4100	921	108	6 4	105	173 74	998 99	32 Vilamba	.	34 Sārvarın	.]	6 Bhādrapada
4101	922	10	57 4	106	174 75	999 1000	33 Vikārin	.	35 Plava .		
4102	923	10	58 4	107	175-76	*1000 01	34 Sārvarın	.	36 Subhakrit		
4103	924	10	59 4	408	176 77	1001-02	35 Plava .	.	37 Söbhana		5 Srāvanat .
4104	925	10	60	409	177-78	1002 03	36 Subhaktit		38 Krödhin		
4105			_	410	178-79	1003 04	37 Sõbbana		39 Viśtāvasu	•	
4106	1	-	- }	411	179 80	*1004 05	38 Krödhın		40 Parābhava	•	3 Jyështha .
4107 410		1	1	412	180-81	1002 06	39 Viśvāvasu	٠	41 Plavanga	٠	
410	- {	· -	064	413	181 82	1006 07	40 Parābhava		42 Kilaka .	{	8 Kürttika 9 <i>Mäsgaš</i> (ksh.))
411	- }		066	415	182 83 183 84	1007 08	41 Plavanga	•	43 Saumya		1 Chastra
411	1	- 1	.067	416	184 85	*1008 09 1009-10	42 Kīlaka	•	44 Sädhärnna		
411	12 9	- {	1068	417	185-86	1010 11	43 Saumya 44 Sādhārana			•	5 Srūvana .
41	13 9	34]	1069	418	186 87	1011-12	ţ	•	46 Paridhävin 47 Pramädin		
41	14 9	35	1070	419	187 88	*1012-13	1		48 Ānanda		4 Āshādha .
41	15 9	36	1071	420	188 89	1013 14	i .		49 Rākshasa		1 Abhana
	\	- 1	1072	421	189-90	1014-15	48 Ananda		50 Anala		
	- 1	- 1	1073	422	190 91	1015-16	49 Rākshasa	•	51 Pingala		2 Vaišākba .
	}	139	1074	423		1		•	52 Kālayukta		
	. }	940 941	1075 1076	424	-52	1	6	•	53 Siddhärthin		6 Bhādrapada
		942	1077	425 426		}		•	54 Raudra		
		943	1078	427		,			55 Durmatı	•	
-6-2		1					on page preceding		56 Dundubhi	•	5 Śrāvana† .

[†] See "Remarks" on page preceding the Table

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				COM	MENCEMENT	OF THE				
	Solar tlai	t.			Luni-solar		n sunrisc of A surla 1 e		on which	
Day and month A D	Week- day	Mês	e of ha s rånt		Day and month A D	Week day	а	ь	c	Kalı
13	14	· 	17		19	20	23	24	25	1
		H	M	8			<u> </u>		1	1
21 Mar (81)	0 Sat .	15	29	24	22 Feb (53)	0 Sat	9877 5419	173 7640	199 1484	4098
21 Var (80)	1 Sun .	21	41	33	12 Mar (71)	6 Fri	9912 2243	109 7575	251 4589	4099
22 Mar (81)	3 Tues	3	53	42	2 Mar (61)	4 Wed .	126 5792	993 2933	222 3735	4100
22 Mar (81)	4 Wed .	10	5	51	21 Mar (80)	3 Tues	161 2616	929 2867	273 6618	4101
21 Mar (81)	5 Thur	16	18	0	9 Mar (69)	0 Sat	36 9845	776 5307	242 8385	4102
21 Mar (80)	6 Fri	22	30	9	27 Feb (58)	5 Thur	251 3393	660 0664	214 7531	4103
22 Mar (81)	l Sun .	4	42	18	17 Mar (76)	3 Tues	9947 3897	559 7683	263 3257	4104
22 Mar (81)	2 Mon	10	54	27	6 Mar (65)	0 Sat	9823 1125	407 0122	232 5025	4105
21 Mar (81)	3 Tues	17	6	36	24 Feb (55)	5 Thur	37 4674	290 5480	204 4171	4106
21 Mar (80)	4 Wed	23	18	45	13 Mar (72)	3 Tues	9733 5177	190 2498	253 9897	4107
22 Mar (81)	6 Fr: .	5	30	54	3 Mar (62)	1 Sun .	9947 8726	73 7855	224 9042	4108
22 Mar (81)	0 Sat .	11	43	3	21 Fcb (52)	6 Frı	162 2275	957 3273	196 8189	4109
21 Mar (81)	1 Sun	17	55	12	11 Mar (71)	5 Thur	196 9097	893 3146	248 1293	4110
22 Mar (81)	3 Tues	0	7	21	28 Feb (59)	2 Mon	72 6326	740 5588	217 3061	4111
22 Mar (81)	4 Wed	6	19	30	19 Mar (78)	1 Sun	107 3140	676 5522	268 6164	4112
22 Mar (81)	5 Thur	12	31	39	8 Mar (67)	5 Thur	0983 0379	523 7962	237 7933	4113
21 Mar (81)	6 Fri .	18	43	-4 8	25 Feb (56)	2 Mon	9858 7607	371 0403	206 9701	4114
22 Mar (81)	1 Sun	0	55	57	15 Mar (74)	1 Sun .	9893 4431	307 0338	258 2805	4115
22 Mar (81)	2 Mon .	7	8	6	4 Mar (63)	5 Thur	9769 1660	154 2779	227 4572	4116
22 Mar (81)	3 Tues	13	20	15	22 Feb (53)	3 Tues	9983 5207	37 8125	199 3718	4117
21 Mar (81)	4 Wed	19	32	24	12 Mar (72)	2 Mon	18 2031	973 8070	250 6823	4118
22 Mar (81)	6 Fr: .	1	44	33	2 Mar (61)	0 Sat	232 5580	857 3427	222 5968	4119
22 Mar (81)	0 Sat .	7	56	42	21 Mar (80)	6 Frı	267 2404	793 3362	273 9072	4120
22 Mar (81)	1 Sun	14	8	51	10 Mar (69)	3 Tues	142 9632	640 5802	243 0840	4121
21 Mar (81)	2 Mon	20	21	0	27 Feb (58)	0 Sat	18 6860	487-8243	212 2609	4122

				CONC	urrent :	YEAR		
Kalı	Śaka	Vıkrama	olar year al	Tr. Ti		Jovier Sa	Myatsara	Intercalated (adhika) and suppressed (kshaya) true
VSII	Dere	Chaitrādi Vikrama	Mëshādı solar ra Bengal	Kollam.	A D	Southern system	Northern system	lunar months
1	2	3	3a	4	5	6	7	8
4123	244	1000						
	944	1079	428	196-97	1021-22	55 Durmatı .	57 Rudhırödgârın	•••
4124	945	1080	429	197-98	1022 23	56 Dundubhi	58 Raktāksha	•
4125	946	1081	430	198-99	1023-24	57 Rudhírödgārın	59 Krödhana	3 Jycshtha .
4126	947	1082	431	199 200	*1024-25	58 Raktāksha	60 Kshaya	•
4127	948	1083	432	200-01	1025 26	59 Krödhana	I Prabhava	7 Aśvina 10 Pausha (Lsh)
4128	949	1084	433	201-02	1026-27	60 Kshaya	2 Víbhava	1 Chartra .
4129	950	1085	434	202 03	1027-28	l Prabhava	3 Śukla	
4130	951	1036	435	203 04	*1028-29	2 Vibhava	4 Pramēda	5 Śrāvana
4131	952	1087	436	204.05	1029-30	3 Sukla .	5 Prajāpatı	_
4132	953	1088	437	205 06	1030 31	4 Pramēda	6 Angeras	
4133	954	1089	438	206 07	1031 32	5 Prajāpatı .	7 Śrimukha	3 Jyështha .
4134	955	1090	439	207-08	*1032-33	6 Angiras	8 Bhāva	o ogeniana .
4135 4136	956	1091	440	208 09	1033 34	7 Śrimukha	9 Yuvan	•
	937	1092	441	209-10	1034 35	8 Bhāva	10 Dhātrı	2 Vaiéākha
4137 4138	958	1093	442	210 11	1035-36	9 Yuvan	11 Iśvara	— TOIDOKUK ,
4139	939	1094	443	211-12	*1036 37	10 Dhātrı .	12 Bahudhānya	6 Bhādrapada
4140		1095	411	212-13	1037 38	11 Iśvara	13 Pramāthin	- madrapads
4141		1096	445	213 14	1038 39	12 Bahudhānya	14 Vikrama	
4142	1	1097	446	214-15	1039-40	13 Pramāthin	15 Vrishs	4 Āshāḍha
4143	1	1098	447	215-16	*1040 41	14 Vikrama	16 Chitrabhanu	- vennius .
+144		1099	448	216-17	1041 42	15 Vrisha	17 Subhānu	•
4145	1	1100	449	£17-18	1042-43	16 Chitrabhānu	18 Tărana	3 Jyēshtha
4146	1	1102	450	218-19	1013.44	17 Subhānu	19 Parthiva	- คโยมหกับช
4147	1	1	451	219 20	*1011-45	18 Tārana .	20 Vyaya	7 Āévina
	1	1	452	220-21	1045-46	19 Pārthīva	21 Servajit	- amina

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				•	COMMENCEM	ENT OF T	CHE			
	Solar 1eai	r			LUNI SOLA	P 1 BAP (ME CHAIT	ar sunkisf Tra furla l	of civil da Ends)	k on mhich	
Day and month A D.	Week- day	Me	me ol Ish i Krān		Day and month A D	Weck-day	G	6	c	Kalı
13	14	İ	17		19	20	23	24	25	
		H	M	s		-	<u> </u>			1-
22 Mar (81)	4 Wed.	2	33	9	17 Mar (76)	6 Fri	53 3685	423 8178	263 3090	4123
22 Mar (81)	5 Thur	8	45	18	6 Mar (65)	3 Tues	9929-0902	271 0618	232 7480	4124
22 Mar (81)	6 Fri	14	57	27	23 Feb (54)	0 Sat	9804 8141	118 3008	201 9238	4125
21 Mar (81)	O Sat .	21	9	36	13 Mar (73)	6 Fri	9839 4965	54 2993	253 2353	4126
22 Mar (81)	2 Mon	3	21	45	3 Mar (62)	1 Wed	53 8514	937 8350	225 0498	4127
22 Mar (81)	3 Tues	9	33	54	21 Teb (52)	2 Mon	268 2062	821 3708	197 0643	4128
22 Mar (81)	4 Wed	15	46	3	12 Mar (71)	1 Sun	302 8985	757 3642	248 3748	4129
21 Mar (81)	5 Thur -	21	58	12	29 Feb (60)	5 Thur	178 6114	604 6082	217 5517	4130
22 Mar (81)	0 Sat	4	10	21	19 Mar (78)	4 Wed	213 2937	540 6018	268 8620	4131
22 Mar (81)	1 Sun	10	22	30	8 Mar (67)	I Sun.	80 0166	387 8457	238 0388	4132
22 Mar (81)	2 Mon	16	34	39	25 Feb (56)	5 Thur	9964 7395	235 0898	207 2156	4133
21 Mar (81)	3 Tues	22	46	48	15 Mar (75)	4 Wed	9000 4210	171 0833	258 5271	1134
22 Mar (81)	5 Thur	4	58	57	4 Mar (63)	1 Sun	9875 1447	17 3274	227 7028	4135
22 Mar (81)	6 Frs .	11	11	6	22 Feb (53)	6 Frı	89 4995	901 8631	199 6173	4136
22 Mar (81)	0 Sat	17	23	5	13 Mar (72)	5 Thur	124 1819	837 8565	250 4278	4137
21 Mar (81)	1 Sun .	2.3	35	24	1 Mar (61)	2 Mon	9999 9048	685 1006	219 6046	4138
22 Mar (81)	3 Tues	5	47	33	20 Mar (79)	1 Sun	34 5871	621 0940	271 4150	4139
22 Mar (81)	4 Wed	11	59	42	9 Mar (68)	5 Thur	9910 3100	468 3381	239 5919	4110
22 Mar (81)	5 Thur	18	11	50	26 Feb (57)	2 Mon	9786 0329	315 5822	209 7686	4141
22 Mar (82)	0 Sat	0	23	59	16 Mar (76)	1 Sun	9820 7152	251 5756	261 0791	4142
22 Mar (81)	1 Sun	6	36	8	6 Mar (65)	6 Fri -	35 0700	1 45 1113	232 9936	4143
22 Mar (81)	2 Mon	12	48	17	23 Feb (54)	3 Tues	9910 7929	982 3553	202 1704	4144
22 Mar (81)	3 Tues	19	0	26	14 Mar (73)	2 Mon	9945 4753	918 3478	253 4808	4145
22 Mar (82)	5 Thur	1	12	35	3 Mar (63)	0 Sat .	159 8391	801 8845	225 3953	4146
22 Mar (81)	6 Fri	7	24	44	22 Mar (81)	6 Frı	194 5125	737 8780	276 7058	4117

, .,				CONCU	RRENT Y	EAR			Ī	
		rama	year			Jovian S	AM	VATSARA.	7	Interculated (adhila) and suppressed
Kalı	Śaka	Chaitrādi Vikrama	Mēshādı solar ın Bengal	Kollam	A D	Southern system		Northern system		(<i>lshaya</i>) true lunar months
1	2	3	3a	4	5	6		7		8
4148	969	1104	453	221 22	1046 47	20 Vyaya		22 Sarvadhärin		
4149	970	1105	454	222 23	1047-48	21 Sarvajit	•	23 Virödhin	.	5 Srāvana .
4150	971	1106	455	223 24	*1048 49	22 Sarvadhārın		24 Vikrita	.	
4151	972	1107	456	224 25	1049 50	23 Virödhin		25 Khara	۱.	•
4152	973	1108	457	225 26	1050 51	24 Vikrita .		26 Nandana		3 Jyështha .
4153	974	1109	458	226 27	1051-52	25 Khara		27 Vijaya	\cdot	••
4154	975	1110	459	227-28	*1052 53	26 Nandana		28 Jaya .		• •
4155	976	1111	460	228 29	1053-54	27 Vijaya .	•	29 Manmatha	\cdot	2 Vaišākha .
4156	977	1112	461	229 30	1054 55	28 Jaya .	•	30 Durmukha		••
4157	978	1113	3 462	230 31	1055-56	29 Manmatha	•	31 Hēmalamba		6 Bhādrapada
4158	979	1114	463	231-32	*1056 57	30 Durmukha	•	32 Vilamba		•
4159					1057-58	31 Hēmalamba	•	33 Vikārin		• •
416	⁻			1	1058 59	32 Vilamba	•	34 Sārvarın	•	4 Āshādha .
416			1		1	33 Vikārin	•	35 Plava	•	•
416	- !		- 1			34 Särvarın		36 Subhakrit	•	••
416 416	1	1	- 1		}	1	•	37 Sõbhana	•	3 Jyështha .
416	- 1	- 1	- 1	1	J	1	•	38 Krödhin	٠	
416	j	1	1			ì		39 Visvāvasu	٠	7 Āśvina
410		1	1	1	j	}	•	40 Parābhava	٠	
410	- }		- 1	1	1	Ţ	•	41 Plavanga 42 Kilaka .	•	F 6
41	69 99	0 11	- 1	1	1	1	•	43 Saumya		5 Śrāvaņa
41	70 99	ոկո	26 4	15 243 44	1	1	•	i	•	
41	71 9	02 11	27 4	76 244 4	1069 70	1		1	•	3 Jyështha
41	172 9	n3 11	28 4	77 245 40	5 1070 7	l			•	- olesuéna

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					COM	MENCEMENT	OF THE				
	8	SOLAB LEAF	i.			Luni solar	YEAR (MEA CHAITR	n sunrise o a śukla 1 i	F CIVIL DAY ENDS)	on which	Kals
,	Dry and month A. D	Week- day	Mc	e of sha s crant	am.	Day and month, A D	Week- day	а	6	c	
	13	14		17		19	20	23	24	25	1
	22 Mar (81)	O Sat .	H 13	M 36	S 53	11 Mar (70)	3 Tues	70 2354	585 1221	245 8826	4148
	22 Mar (81)	1 Sun .	19	49	2	28 Feb (59)	0 Sat	9945 9581	432 3661	215 0594	4149
	22 Mar (82)	3 Tues	2	1	11	18 Mar (78)	6 Fri	9980 6406	368 3596	266 3697	4150
	22 Mar (81)	4 Wed .	8	13	20	7 Mar (66)	3 Tues .	9856 3634	215 6036	235 5466	4151
	22 Mar (81)	5 Thur	14	25	29	25 Feb (56)	1 Sun	70 7183	99 1393	207 7536	4152
	22 Mar (81)	6 Fri .	20	37	38	16 Mar (75)	0 Sat	105 4006	35 1328	258 7716	4153
	22 Mar (82)	1 Sun .	2	49	47	4 Mar (64)	4 Wed	9981 1235	882 3769	227 9483	4154
	22 Mar (81)	2 Mon .	0	1	56	22 Feb (53)	2 Mon	195 4783	767 9126	199 8629	4155
	22 Mar (81)	3 Tues .	15	14	5	13 Mar (72)	1 Sun .	230 1606	701 9061	251 1734	4156
	22 Mar (81)	4 Wed .	21	26	14	2 Mar (61)	5 Thur	105 8835	549 1501	220 3501	4157
	22 Mar (82)	6 Fri .	3	38	23	20 Mar (80)	4 Wed	140 5659	485 1435	271-6605	4158
	22 Mar (81)	0 Sat .	9	50	32	9 Mar (68)	1 Sun .	16 2888	333 3876	240 8375	4159
	22 Mar (81)	1 Sun	16	2	41	26 Feb (57)	5 Thur	9892 0116	179 6317	210 0142	4160
	22 Mar (81)	2 Mon	22	14	50	17 Mar (76)	4 Wod	9926,6940	115 6452	261 3246	4161
	22 Mar (82)	4 Wed	4	26	59	6 Mar (66)	2 Mon .	141 0488	999 1608	233 2391	4162
	22 Mar (81)	5 Thur	10	39	8	23 Feb (54)	6 Frı.	16 7716	856 4049	202 4159	4163
	22 Mar (81)	6 Fri .	16	51	17	14 Mar (73)	5 Thur	51 4540	782 3983	253 7264	4164
	22 Mar (81)	0 Sat	23	3	26	4 Mar (63)	3 Tues	265 8089	665 9341	225 6409	4165
	22 Mar (82)	2 Mon	5	15	35	21 Mar. (81)	1 Sun .	9961 8593	565 6363	274 2135	4166
	22 Mar (81)	3 Tues	11	27	44	10 Mar (69)	5 Thur	9837 5821	412 8799	243 3903	4167
	22 Mar (81)	4 Wed	17	39	53	28 Feb (59)	3 Tues.	51 9369	296 4157	215 3050	4168
	22 Mar (81)	5 Thur	23	52	2	18 Mar (77)	1 Sun.	9747 9874	196 1174	263 8775	4169
	22 Mar. (82)	0 Sat .	6	4	11	7 Mar (67)	6 Fra.	9962 3421	79 6532	235 7921	4170
	22 Mar (81)	1 Sun .	12	16	20	25 Feb (56)	4 Wed	176 6970	963 1888	207 7067	4171
	22 Mar (81)	2 Mon	18	28	29	16 Mar (75)	3 Tues .	211 3794	899 1823		4172
										2 4	

TABLE

	=======			CONCU	RRENT Y	EAR		
		krama	r year			Jovian Sad	ivatsara	Intercalated (adhika) and suppressed
Kah	Śaka	Chaitrādi Vikrams	Meshadi solar in Bengal	Kollam	A D	Southern system	Northern system	(kehaya) true lunar months
1	2	3	3a	4	5	6	7	8
4173	994	1129	478	246 47	1071 72	45 Vırödhakrıt .	47 Pramādin	3 Kärttika . }
4174	995	1130	479	247-48	*1072 73	46 Parıdhävın .	48 Ānanda .	2 Varsākha
4175	996	1131	480	248 49	1073 74	47 Pramādin .	49 Rākshasa	
4176	997	1132	481	249 50	1074 75	48 Ānanda .	50 Anala† .	6 Bhadrapada
4177	998	1133	482	250 51	1075-76	49 Rākshasa .	52 Kālayukta	
4178	999	1134	483	251 52	*1076-77	50 Anala .	53 Siddhārthin	
4179	1000	1135	484	252 53	1077-78	51 Pingala .	54 Raudra	4 Āshādha
4180	1001	1136	485	253 54	1078 79	52 Kālayukta	55 Durmati	
4181	1002	1137	486	254-55	1079 80	53 Siddhārthin .	56 Dundubhs	
4182	1003	1138	487	255 56	*1080 81	54 Raudra .	57 Rudhırödgärın	3 Jyështha
4183	1004	1139	488	256 57	1081-82	55 Durmata .	58 Raktāksha .	.
4184		1140	489	257 58	1082 83	56 Dundubhi	59 Krödhana .	7 Āśvina .
4185	1	1141	490	258 59	1083 84	57 Rudhırödgärin	60 Kshaya	
4186		1142			*1084 85	58 Raktāksha	1 Prabhava .	
4187 4188		1143	1		1085 86	59 Krödhana	2 Vrbhava	5 Śrāvaņa .
4189					1086 87	60 Kshaya	3 Sukla	
419	j	j	i		1087 88	l Prabhava	4 Pramoda .	
419	1	1			*1088 89	2 Vibhava	5 Prajāpati .	3 Jyështha .
419		1			1089-90	3 Sukla .	6 Angiras	
419	1				1090 91	4 Pramoda	7 Śrīmukha	8 Kärttika 10 Pausha (Lsh)
419	Ì	1		1			8 Bhāva	1 Chartra
410	5 10N	1	1	1	1		9 Yuvan .	
411	96 101	7 115	2 50	i	1		10 Dhātrı	6 Bhādravada
419	77 101	8 115	3 50	ł	1		11 Isvara	***
	<u> </u>	- ====		† K1 D.	1	suppressed in the ne	12 Bahudhānya .	<u> </u>

LXXXII-Contd

			(OM	MENCEVENT	OF THE				
5	olab Year				Luri-solar	ear (mfan Chaitr	i sunrise of A śurla I ei	CIVIL DAY (HOIHW KC	
Day and month A D.	Week- day.	Mea	e of t ha sa ranti	m-	Day and month A. D	Week- day	a	ь	c	Kab
13	14		17		19	20	23	24	25	1
		н.	M	ន						
23 Mar (82)	4 Wed.	0	40	38	5 Mar (64)	0 Sat .	87 1023	746 4264	228 1939	4173
22 Mar (82)	5 Thur	6	62	47	22 Feb (53)	4 Wed	9962 8251	593 6705	197 3706	4174
22 Mar (81)	6 Fn	18	4	56	12 Mar (71)	3 Tues	9997 5074	530 6639	248 6811	4175
22 Mar. (81)	O Sat	10	17	5	1 Mar (60)	0 Sat	9873 2303	376 9079	217 8580	4176
23 Mar. (82)	2 Mon.	1	20	14	20 Mar (79)	6Fn .	9907 9126	312 9015	269 1683	4177
22 Mar. (82)	3 Tues	7	41	23	8 Mar (08)	3 Tues	9783 6355	160 1454	238 3451	4178
22 Mar (81)	4 Wed	13	53	32	26 Feb (57)	1 Sun .	9997 9904	43 6812	210 2597	4179
22 Mar (81)	5 Thur	20	5	41	17 Mar (76)	O Sat .	32 6728	979 6747	261 57672	4180
23 Mar. (82)	0 Sat	2	17	50	7 Mar (66)	5 Thur.	247 0275	863 2103	233 4847	4181
22 Mar (82)	1 Sun .	8	29	59	24 Feb (55)	2 Mon	122 7504	710 4544	202 6614	4182
22 Mar (81)	2 Mon	14	42	8	14 Mar. (73)	1 Sun .	157 4328	646 4478	253 9719	4183
22 Mar. (81)	3 Tues	20	54	17	3 Mar (62)	5 Thur	33 1557	493 6919	223 1487	4184
23 Mar. (82)	5 Thur	3	6	26	22 May (81)	4 Wed	67 8380	429 6854	274 4591	4185
22 Mar (82)	6 Fr	9	18	35	10 Mar (70)	1 Sun	0043 5609	276 9294	245 6358	4186
22 Mar (81)	0 Sat	15	30	43	27 Feb (58)	& Thur	9819 2837	124 1735	212 8127	4187
22 Mar (81)	1 Sun	21	42	52	18 Mar (77)	4 Wed	9853 9661	60 1669	264 1231	4188
23 Mar (82)	3 Tues	3	55	1	8 Mar (67)	2 Mon	68 3209	943 8027	236 0377	4189
22 Mar (82)	4 Wed	10	7	10	26 Feb. (57)	O Sat .	282 6758	827 2383	207-9522	4190
22 Mar (81)	5 Thur	16	19	19	16 Mar (75)	6 Fr.	317 3582	763 2318	259 2627	4191
22 Mar (81)	6 Fr .	22	31	28	5 Mar (64)	3 Tues	193 0310	610 4759	228 4395	4192
23 Mar. (82)	1 Sun .	4	43	37	22 Feb. (53)	0 Sat .	68 8039	457 7200	197 6162	4193
22 Mar (82)	2 Mon	10	55	48	12 Mar (72)	6 Fn	103 4862	393 7134	248 9266	4194
22 Mar. (81)	3 Tues	17	7	55	1 Mar (60)	3 Tues	9979 2090	240 9577	218 1035	4195
22 Mar (81)	4 Wed	23	#O	4	20 Mar (79)	2 Mon .	13 8914	176-9509	269 4139	4196
23 Mar (82)	6 Fm .	5	32	13	9 Mar. (68)	6 Fm .	9889 6148	24 1949	238 5907	4197
سمسم									2 .	^

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					C	ONCUR	rent y	EAI	R.									
				r year		-				Jovi	AN SA	MY	AT9.	ARA		1	Interculated (adlula) and suppressed (Ishaya) true	
Kalı	Saka		Chaitrādi Vikrains	Mcshädı solar ın Bengal	Kol	am.	A. D			uther stem				Northern system	1		unar months	
1	2	- -	3	3a	1	4	5			6				7			8	_
4198	101	9 7	1154	503	27	1-72	*1096 97	10	Dh	ātŗı .	•		13 1	Pramäth	מו	1	rdbäda X 1	
4199	102	0	1155	504	27	2-73	1097-98	1		nta		- [14 1	Vıkrama				
4200	102	1	1156	505	27	13 74	1098 99	12	Ba	hudhi	azań	•	15 `	Yrısha .	•		•	
4201	102	22	1157	500	3 2'	14-75	1099 110	0 13	3 Pr	amätl	an	. !	13	Chitrabh	บตก	٠١'	3 Jyčshtha	
420	2 10	23	1158	50	7 2	75 76	*1100 01	1	4 Vı	kram	D _r	٠ [17	Subhānu	ı	•	•	1
420	3 10	24	1159	50	8 2	76 77	1101-02	1	5 V1	isha	•	•		Tārana		•	7 Advina	- [
420	4 10	25	1160	50	9 2	77-78	1102-03				unān	\cdot		Pärthivi		٠	•	1
420	5 10	26	116	1 51	- 1	78-79	1103 0	1		ıbhān		1		Vyaya		٠	_	ļ
42(027	116			279 80	*1104 0			ārana				Sarvajit		\cdot	4 Āshādha	•
420		028	116		1	280 81	1105 0	- (ärthr		٠		Sarvadi		-	•	1
42	- 1 -	029	110	1		281 82	1106 0	1		уауа		• '		Virödhi			•	l
		.030	116			282-83	1107-0			arvaj		•	1	Vikrita		- [3 Jytehtha	•
		1031 1032	110		515	283 84	*1108	-	•	Sarvac Virödi	dhärm 	•	{	Khara	•	d	8 Kārttika	اد.
	1	1032 1033		- 1	516 517	284 85 285 86	11109-	1		Vikrit		•	1	Nanda		1	10 <i>Pauska</i> (Le 12 Phälguna	"") }
	į	1034		169	518	286 87				Khar		•	}	7 Vijaya 8 Jaya				
	4214	103		170	519	287 88		- 1		Nand		•	1	9 Manm	• nthe		5 Śrāvana	
	4215	103	6 1	171	520	288-89	1		i	Vijay			-	0 Durm		•	o Bratana	•
	4216	103	17] 1	172	521	289 9	0 1114	15	1	Jaya		•	1	l Hēma				
	4217	10:	38 1	1173	522	290 9	1 1111	-16	29	Man	matha		-	32 Vilam			4 Āshādha	
	4218	10	39	1174	523	291-9	2 *111	5 17	30	Dur	mukba	• ,	. :	83 Vikār	m			-
	4219	1	40	1175	524	292-9	3 111	7-18	31	Hēn	alami)B.	.	34 Sārva	rin			
	€220	١	- 1	1176	525		1	8 19	32	Vıla	mba		.	35 Plave	٠.		2 Varšākha	
	4221	1	142	1177	526	1	- 1	9-20	1	3 Vıki			- }	36 Śubh	akrıt			
,	4222	11	043	1178	527	295	96 *112	0 21	. 3	4 Šār	vorin		•	37 Śōbh	ana		. 6 Bhādrap	ada
,										*******			<u></u>			-	_!	

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				CO.	MMENCEMEN:	r of the	2			-
\$	SOLAR YEAR	R			Luni sola		av su\rise (ra slki a 1		7 O7 William	Kalı
Dry and month A D	Weck- dry	317	ne of sha i krin		Day and month A D	Week- day	a	t	c	
13	14	-	17	·	19	20	23	24	25	1
		H	M	s				-		-
22 Mar (82)	0 Sat	11	41	22	27 Feb (58)	4 Wed	103 9691	907 7307	210 5052	4198
22 M ir (81)	1 Sun	17	56	31	17 Mar (76)	3 Tues	138 6515	843 7242	261 8157	4199
23 Mar (82)	3 Tucs	0	8	40	6 Mar (65)	0 Sat	14 3744	690 9683	230 9925	4200
23 Mar (82)	4 Wed	8	20	49	24 Fcb (55)	5 Thur	228 7291	574 5038	202 8848	4201
22 Mar (82)	5 Ibur	12	32	58	13 Mar (73)	3 Tues	9924 7795	474 2057	251 4575	4202
22 Mar (81)	6 Fu	18	45	7	2 Mar (61)	0 51t	9900 5024	321 4497	20 6342	4203
23 Var (82)	1 Sun	0	57	16	21 Mar (80)	6 Fri	9835 1847	257 4432	271 9446	4204
23 Mar (82)	2 Mon	7	9	25	11 Mar (70)	4 Wed	49 5396	140 9788	243 8592	4205
22 Mar (82)	3 Tucs	13	21	34	28 Fcb (59)	1 \sun	9925 2624	988 2229	213 0361	4206
22 Mar (81)	4 Wed	19	33	43	18 Mar (77)	0 Sat	9959 9449	924 2154	264 3464	1207
23 Mar (82)	6 In	1	45	52	8 Mar (67)	5 Thur	174 2996	807 7521	236 2010	4208
23 Mar (82)	0 Sat	7	58	1	25 Feb (56)	2 Mon	50 0225	654 9962	205 4387	4209
22 Mar (92)	1 Spn	14	10	10	15 War (75)	1 Sun	84 7018	590 9896	256 7493	4210
22 Var (81)	2 Mon	20	22	19	4 Mar (63)	5 Thur	9960 4277	438 2337	225 9250	4211
23 Mar (82)	4 Wed	2	34	28	23 Mar (82)	4 Wed	9995 1101	371 2271	277 2354	4212
23 Mar (82)	5 Thur	8	4υ	37	12 Mar (71)	1 Sun	1870 8330	221 4712	246 4122	4213
22 Mar (82)	6 Γn	14	58	16	1 Mar (61)	6 Fri	85 1877	105 0069	218 3269	4214
22 Mar (81)	0 Sat	21	10	53	20 Mar (79)	5 Thur	119 8701	41 0004	269 6373	4215
23 Mar (82)	2 Mon	ઢ	23	4	0 Mar (68)	2 Mon	9995 5930	888 3444	2 38 8140	4216
23 Mar (82)	3 Tues	9	35	13	27 Fcb (58)	0 Sat .	209 9478	771 7891	210 7286	4217
22 Mar (82)	4 Wed	15	47	22	17 Mar (77)	6 Trı	244 6302	707 7736	262 0391	4218
22 Mar (81)	5 Thur	21	59	31	6 Mar (65)	3 Tues	120 3530	535 0176	231 21 78	4219
23 M ir (82)	0 Sat .	4	11	40	23 Feb (54)	0 Sat	9996 0759	402 2617	200 3925	4220
23 Mar (82)	1 Sun .	10	23	49	14 Mar (73)	6 Fri	30 7582	338 2552	į.	42 21
22 Mar (82)	2 Mon	16	35	58	2 Mar (62)	3 Tues	9906 4811	185 4993	220 8798	4222

TABLE

				CONC	urrent 1	YEAR		
Kah	Saka	Vıkrama	olar year	Kollam.	A D	JOSTAN S	My atticia.	Intercalated (adhits) and suppressed (kshays) true
Kan		Chatrādz Vakrama	Mëshadi solar in Bengal	Konsu.	Αυ	Southern system.	Northern system	lunar months,
1	2	3	3a	4	5	6	7	8
4 223	1044	1179	528	296-97	1121-22	35 Plava	38 Kródhin .	•
4224	1045	1180	529	297-98	1122-23	36 Subhakpt .	. Peavārdiv es	• •
4225	1046	1181	530	298-99	1123 24	37 Söbhana .	40 Parabbaya	4 Āshādha .
4226	1017	1182	531	299-300	•1124-25	38 Krödhm .	41 Plavanga .	
4227	1048	1183	532	300 01	1125 26	30 Višvāvasu .	42 Kilaka	
4228	1049	1184	533	301-02	11 6-27	40 Parabbava .	43 Saumya	3 Jyčehtha .
4229	1050	1185	534	302-03	1127 28	41 Plavanga .	44 Sādhāraņa .	
4230	1051	1186	83 5	303 04	*1128 29	42 Knale	45 Virodhakrri .	12 Phälguna† .
4231	1052	1187	536	304-05	1129 30	43 Saumya .	46 Paridhāvin	
4232	1053	1188	537	305 06	1130 31	44 Sādhāraņa .	47 Pramādin	
4 233 4 234	1054	1189	538	306 07	1131-32	45 Virodhakut .	48 Āpanda	5 Śrāvana .
4234	1055	1190	539	307-08	*1132 33	46 Pandhāvin .	49 Rālshasa	
4236	1056	1191	540	308 09	1133 34	47 Pramādın .	50 Anala	
4237	1058	1192	541	309 10	1134-35	48 Ānanda .	51 Pmgala	4 Āshādha
4238	1059	1193	542	310 11	1135 36	49 Rālshasa .	52 Kälayukta	
4239	1060	1195	543	311-12	*1136-37	50 Anala	53 Siddhärthin	
4240	ł	1196	544 545	312-13	1	51 Pingala	54 Raudra	2 Vaišākha
4241	1 -	1	}	313 14		52 Kālayukta	55 Durmati	
4242	1063	1	}	1	1139 40	53 Siddhārthin	56 Dundubhi	6 Bhādrapada
4243	1		1	315 16 316-17	*1140 41	54 Raudra	57 Rudhirödgārin	
4244	1065	į	1	1 320-21	1141 42	55 Durmati	56 Raktāksha	
4245	1066	1201	ł	1 20	1 20	. Dandaom	59 Krödhana .	4 Āshāḍha
4246	1067	1202	1	1 320 20		- and Garth	60 Kahaya	
4247	1068	1203]		· management	1 Prabhava	
No.]				59 Krödhana .	2 Vibhava	3 Jyentha .

[†] See "Remarks" on page preceding the Table

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Day and month A	Solab Year	3		COM	MENCEMENT LUNI SOLAR	······································				1
		3			LUNI SOLAR					7
	Week-	1					n sunrise of A éurla 1 e		on which	
		Mē	e of ha-s rant		Day and month A D	Wook- day	tı	8	8	Kali.
13	14		17		19	20	23	24	25	1
		н	M	s.						
22 Mar (8	1) 3 Tues	22	48	7	21 Mar (80)	2 Mon	9941 1635	121 4928	272 1902	4223
23 Mar (8	2) S Thur	5	0	16	11 Mar (70)	0 Sat	155 5183	5 0284	244 1047	4224
23 Mar (8	2) 6 Fn	11	12	25	28 Feb (59)	4 Wed	31 2411	852 2724	213-2826	4225
22 Mar (8	2) 0 Sat .	17	24	34	18 Mar (78)	3 Tues	65 9236	788 2659	264 5920	4226
22 Mar (8	1) 1 Sun .	23	36	43	8 Mar (67)	1 Sun	280 2784	671 8016	236 5066	4227
23 Mar (8	2) 3 Tues	5	48	52	25 Feb (56)	5 Thur	156 0012	519 0457	205 6833	4228
23 Mer (8	2) 4 Wod	12	1	1	15 Mar. (74)	3 Tues	9852 0516	418-7475	254.2560	4229
22 Mar (8	2) 5 Thur	18	13	10	3 Mar (63)	0 Sat .	9727 7745	265 9915	223 4328	4230
23 Mar (8	2) 0 Sat	0	25	19	22 Mar (81)	6 Fm .	9762 4568	201 9851	274 7432	4231
23 Mar (8	2) 1 Sun .	6	37	27	12 Mar (71)	4 Wed	9976 8117	85 5207	246 6577	4232
23 Mar (8	2) 2 Mon .	12	49	36	2 Mar (61)	2 Mon	191 1665	969 0564	218 5724	4233
22 Mar (8	2) 3 Tues	19	1	45	20 Mar (80)	1 Sun .	225 8489	905 0499	269 8828	4234
23 Mar (8	2) 5 Thur	1	13	54	9 Mar (68)	5 Thur	101 5717	752 2939	239 0596	4235
23 Mor (8	2) 6 Fn	7	26	3	26 Feb (57)	2 Mon	9977 2946	599 5380	208 2363	4236
23 Mar (8	2) 0 Sat	13	38	12	17 Mar (76)	1 Sun	11 9770	535 5314	259 5468	4237
22 Mar (8	2) 1 Sun .	19	50	21	5 Mar (65)	5 Thur	9887 6999	382 7755	228 7236	4238
23 Mar (8	2) 2 Tues	2	2	30	22 Feb (53)	2 Mon .	9763 4226	230 1095	197 9004	4239
23 Mar (8	2) 4 Wed	8	14	39	13 Mar (72)	1 Sun.	9798 1050	166 0130	249 2108	4240
23 Mar (8	2) 5 Thur	14	26	48	3 Mar. (62)	6 Fri .	12 4599	49 5488	221 1253	4241
22 Mar (8	(2) 6 Fr1	20	38	67	21 Mar (81)	5 Thus	47 1422	985 5422	272 4358	4242
23 Mar (8	2) 1 Sun	2	51	6	11 Mar (70)	3 Tues	261 4971	869 0779	244-3503	4243
23 Mar (2) 2 Mon .	9	3	15	28 Feb (59)	0 Sat .	137-2199	716 3219	214 5272	4244
23 Mar (1	3 Tues	15	15	24	19 Mar (78)	6 Fm .	171-9024	652 3154	264 8375	5245
22 Mar (32) 4 Wed	21	27	33	7 Mar (67)	3 Tues	47 6251	499 5595	234 0143	4246
23 Mar (32) 6 Fri	3	39	42	24 Feb (55)	0 Sat .	9923 3480	346 9035	203 1911	4247

TABLE

	····			CONC	URRENT	YEAR			
		'ıkrama,	lar year I			Jovian 8	Sad	iv atsara	Interculated (adhika) and suppressed
Kalı	Śaka	Chaitrādi Vikrama,	Meshādı solar ın Bengal	Kollam	A D.	Southern system.		Northern system	(Fshaya) true lunar months
1	2	3	3a	4	5	6	- -	7	8
4248	1069	1204	553	321-22	1146 47	60 Kshaya	- -	3 Sukla .	
4249	1070	1205	554	322-23	1147-48	1 Prabhaya			8 Kürttika
4250	1071	1206	555	323-24	*1148 49		•	4 Pramoda	9 Märgas (leh) 12 Phälguna
4251	1072	1207	556	324-25	1149 50		•	5 Prajāpati	•
4252	1073	1208	557	325-26		3 Sukla	•	6 Angiras ,	1
4253	1074	1209	558	326-27	1150 51	4 Pramoda	•	7 Śrimukha .	5 Seāvaņa .
4254	1075	1210	559	327-28	1151-52	5 Prajāpati	•	8 Bhāva	
4255	1076	1211	560	328 29	*1152-53	6 Anguras	•	9 Yuvan .	
4256	1077	1212	561		1153-54	7 Śrīmukha	• :	10 Dhätyı	4 Āshādha .
4257	1078	1213	562	329 30	1154-55	8 Bhāva	• :	ll Iśvara	
4258	1079	1214	563	330 31	1155 56	9 Yuvan	• :	12 Bahudhānya .	
4259	1080	1215	564	331-32	*1156-57	10 Dhātrī	• :	13 Pramäthin .	2 Vaišākha .
4260	1081	1216	565	332-33	1157-58	11 Iśvara		14 Vikrama .	
4261	1082	1217	568	333 34	1158 59	12 Bahudhānya .	. 1	lo Vrisha	6 Bhādrapada
4262	1083	1218	567	334-35	1159 60	13 Pramāthm .	. 1	16 Chutrabhānu†	
4263		1219	568	335-36	*1160 61	14 Vikrama	. 1	l8 Tārana .	
4264	1 -	1220	569	336-37	9	15 Vrisha		19 Pārthwa .	4 Āshādha
4265	i	1221	570	337-38	1162-63	16 Chitrabhānu .	. 2	20 Vyaya .	
4266	1087	1222	571	338-39	1163 64	17 Subhānu	1	21 Sarvazst .	
4267	1088	1223	1	339-40	*1164-65	18 Tārana	. 2	22 Sarvadhärin	3 Jyështha
4268	1089	1224	1	340 41	1165-66	19 Pärth	. 2	23 Virödhin	
4269	1090	1	1	341-42	1166 67	20 Vyaya .	. s	24 Vikrita .	7 Āśvina 10 Pauska (ksh) 12 Phâlguna
427(1091	1226		342-43 343 44	1167-68	21 Sarvajit .		25 Khara	12 Phâlguna
427	1092	1	1	344 45	*1168 69	22 Sarvadhārın .	. :	26 Nandana .	
4279	1693	1	1	345 46	1189-70	23 Virödhin	. :	27 Vijaya	5 Śrāvaņa
	<u></u>	1	1	V20 46	1170 71	24 Vikrita	th.	28 Jaya .	410

LXXXII-Contd.

				CON	IMENCEMENT	OF THE				
	Solar Tea	В			Luni sola	R YEAR (ME CHAI	an Sunrise Tra Śurla 1	of civil da ends).	A ON WHICH	
Dry and month A D	Week- day	M		f true earli ti	Day and month A D	Week-day.	a	ь	c	Kalı
13	14	一	17		19	20	23	24	25	1
		H	M	8		-			_;	-
23 Mar (82)	0 Sat	9	51	_	15 Mar (74)	6 Fri	9958 030	1 282 797	0 254 501	6 4248
23 Mar (82)	1 Sun	16	4	0	4 Mar (63)	3 Tues	9833 753	2 129 041	0 223 678	3 4249
22 Mar (82)	2 Mon	22	16	9	22 Mar (82)	2 Mon	9868 4350	66 0340	274 988	4250
23 Mar (82)	4 Wed	4	28	18	12 Mar (71)	0 Sat	82 7905	949 5702	2 246 9033	4251
23 Mar (82)	5 Thur	10	40	27	2 Mar (61)	5 Thur	297 1453	833 1050	218 6180	4252
23 Mar (82)	6 Frı	16	б2	36	21 Mar (80)	4 Wed	331 8276	769 0904	270 1283	4253
22 Mar (82)	0 Sat	23	4	45	9 Mar (69)	1 Sun .	207 5505	616 3435	239 3051	4254
23 Mar (82)	2 Mon	5	16	54	26 Feb (57)	5 Thur	63 2734	463 5875	208 4819	42)5
23 Mar (82)	3 Tues	11	29	3	16 Mar (75)	3 Tues	9779 3237	363 2894	257 0546	4256
23 Mar (82)	4 Wed	17	41	12	6 Mar (65)	1 Sun	9993 6786	246 8250	228 9691	4257
22 Mar (82)	5 Thur	23	53	21	23 Feb (51)	5 Thur	9869 4024	94 0691	198 1458	4258
23 Mar (82)	O Sat .	6	5	30	13 Mar (72)	4 Wed	9904 0938	30 0625	249 4563	4259
23 Mar (82)	1 Sun	12	17	39	3 Mar (62)	2 Mon	118 4386	913 5983	221 3709	4260
23 Mar (82)	2 Mon	18	29	48	22 Mar (81)	1 Sun	153 1210	849 5918	272 6813	4261
23 Mar (83)	4 Wed	0	41	57	10 Mar (70)	5 Thur	28 8439	696 8358	241 8581	424.2
23 Mar (82)	5 Thur	6	54	6	27 Feb (58)	2 Mon .	9904 5667	544 0799	211 0349	4203
23 Mar (82)	6 Fri	13	б	15	18 Mar (77)	1 Sun	9939 2491	480 0733	262 3454	4264
23 Mar (82)	0 Sat	19	18	24	7 Mar (66)	5 Thur	9814 9719	327 3173	231 5221	4265
23 Mar (83)	2 Mon	1	30	33	25 Feb (56)	3 Tues	20 3268	210 8530	203 4366	42 06
23 Mar (82)	3 Tues	7	42	42	15 Mar (74)	2 Mon	64 0091	146 8465	255 7471	4267
23 Mar (82)	4 Wed	13	54	51	4 Mar (63)	6 Frı	9939 7320	994 0906	223 (239	4268
23 Mar (82)	5 Thur	20	7	0	23 Mar (82)	б Thur	0974 4144	930 0840	275 2343	4269
23 Mar (83)	0 Sat	2	19	9	12 Mar (72)	3 Tues	188 7692	813 6198	247 1488	4270
23 Mar (82)	1 Sun	8	31	18	1 Mar (60)	0 Sat	64 4920	660 8638	1	4271
23 Mar (82)	2 Mon	14	43	27	20 Mar (79)	6 Fri	99 1744	596 8573	267 6361	4272

TABLE

				CONC	URRENT ?	YEAR			
		Vikrama	solar year igal			JOVIAN	Sa	MV atsara	Intereshited (adhila) and suppressed
Kalı	Saka	Chastrūdı 🔻	Meshiidi sol m Benga	Kollam	A D	Southern system.		Northern system	(I shaya) true lunar months
ı	2	3	3a	4	5	6		7	8
4273	1094	1229	578	346 47	1171 72	25 Khara		20 Manmatha	
4274	1095	1230	579	347 48	*1172-73	26 Nandana		30 Durmukha	4 Āzhādha
4275	1096	1231	580	348 49	1173 71	27 Lijaja		31 Hēmalamba	
4276	1097	1232	581	349 50	1174 75	28 Jaya		32 Vilamba	
4277	1098	1233	582	350 51	1175 76	29 Manmatha	•	33 Vikārin	. 2 Vaišākba
4278	1099	1234	583	351 52	*1176-77	30 Durmukha		34 Šārvarın	
4279	1100	1235	584	352 53	1177-78	31 Hīmalamba		35 Plava .	6 Bhādrapada
4280	1101	1236	585	353 54	1178 79	32 Vilamba		36 Subhakrit	
4281 4282	1102	1237	586	354 55	1179 80	33 Vikārin		37 Sõbhana	
4283	1103	1238	587	355 56	*1180 81	34 Sürvarın		38 Krödhin	. 4 Āshādha .
4284	1104	1239	588	356 57	1181 82	35 Plava		39 Visvāvasu	
4285	1105	1240	589	357.58	1482 83	36 Subhakrit		40 Parābhava	
4286	1106 1107	1241	590	358-59	1183 84	37 Sõbhana		41 Plavatga	. 2 Vaišākha .
4237	1107	1242	591	359 60	*1184-85	38 Krōdhin		42 Kilaka .	
4288	1103	1243	592	360 61	1185 86	39 Višvāvasu		43 Saumya	. 6 Bhadrapada
4289	1110]	593	361 62	1186 87	40 Parābhava		44 Sādhāraņa	
4290	1111	1246	594 595	362 63	1187 88	41 Plavanga		45 Virodhakelt	
4291	1112	1247	596	363 64	*1188 89	42 Kilaka .		46 Paridhāvin	. 5 Śrāvana .
4292	1113	1248	597	364 65 365 66	1189 90	33 Saumya	•	47 Pramādin	
4293		1249	298	306 67	1190 91	44 Sādhārana	•	48 Amanda	
	1115	1250	590	367 GB	1191-92	45 Virodhaknt		49 Rākshasa	. 3 Jyeshtha .
	1118	1251	600	1	*1192 93 1193 94	46 Paridhāvin	•	50 Anala .	
4298	1117	1252	601	369 70	1194 95	47 Pramādin	•	51 Pingala	
4297	' 1118	1253	1	370 71	1195 95	48 Ananda		52 Kālayukta	. 2 Vaišākha .
			<u> </u>		*100 80	49 Rākthasa	•	53 Siddhöribin	

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	2674-214-274-2	: -								1
					IMENCEMENT	OF THE				.
s	OLAR YEAR				Luni-solar	YEAR (MEA) Chaitr	n sunrise of A subla 1 e	'CIVIL DAY (NDS)	oy which	
Day and month A D	Week- day	Mēs	e of ha s rant		Day and month A D	Week- day	a	6	c	Kalı
13	14		17		19	20	23	24	25	
		H	M	s		<u> </u>	1			
23 Mar (82)	3 Tues	20	55	36	9 Mar (68)	3 Tues	9974 8973	444 1013	236 8129	4273
23 Mar (83)	5 Thur	3	7	45	26 Feb (57)	0 Sat	9850 6201	291 3454	205 9896	1271
23 Mar (82)	6 Frı	9	19	54	16 Mar (75)	6 Fr	9885 3025	227 3389	257 3001	4275
23 Mar (82)	0 Sat	15	32	3	6 Mar (65)	4 Wed	99 6574	110 8745	229 2147	4276
23 Mar (82)	1 Sun	21	44	11	23 Feb (54)	1 Sun.	9975 3801	958 1187	198 1914	4277
23 Mar. (83)	3 Tues	3	56	20	13 Mar (73)	0 Sat	10 0625	894 1120	249 7018	4278
23 Mar (82)	4 Wed	10	8	29	3 Mar (62)	5 Thur	224 4174	777 6478	221 6164	4279
23 Mar (82)	5 Thur	16	20	38	22 Mar (81)	4 Wed	259 0998	713 6413	272 9269	4250
23 Mar (82)	6 Frı	22	32	47	11 Mar (70)	1 Sun	134 8226	560 8853	242 1036	4281
23 Mar (83)	1 Sun	4	44	56	28 Feb (59)	5 Thur	10 5455	408 1294	211 280#	4282
23 Mar (82)	2 Mon	10	57	5	18 Mar (77)	4 Wcd	45 2279	344 1228	262 5909	4253
23 Mar (82)	3 Tues	17	9	14	7 Mar (66)	1 Sun	9920 9507	191 3668	231 7677	1284
23 Mar (82)	4 Wed	23	21	23	24 Feb (55)	5 Thur	9796 6735	38 6109	200 9444	4285
23 Mar (83)	6 Fm	5	33	32	15 Mar (75)	5 Thur	169 9879	10 8960	254 9926	4286
23 Mar (82)	0 Sat	11	45	41	4 Mar (63)	2 Mon	45 7108	858 1401	224 1694	4287
23 Mar (S2)	1 Sun	17	57	50	23 Mar (82)	1 Sun .	80 3931	794 1335	275 4799	4288
24 Mar (83)	3 Tues	0	9	59	13 Mar (72)	6 Frı	294 7480	677 6693	247 3944	4283
23 Mar (83)	4 Wed	6	22	8	1 Mar (61)	3 Tues	170 4708	524 9133	216 5712	4290
23 Mar (82)	5 Thur	12	34	17	19 Mar (78)	1 Sun .	9806 5213	424 6151	265 1438	4291
23 Mar (82)	6 Frı	18	46	26	8 Mar (67)	5 Thur	9742 2440	271 8592	234 3207	4292
24 Mar. (83)	1 Sun	0	58	35	26 Feb (57)	3 Tues	9956 5989	155 3949	206 2352	4293
23 Mar (83)	2 Mon	7	10	44	16 Mar (76)	2 Mon	9991 2813	91 3884	257 5450	4294
23 Mar (82)	3 Tues	13	22	53	6 Mar (65)	0 Sat	205 6364	974 9241	229 4602	4293
23 Mar (82)	4 Wed.	19	35	2	23 Feb (54)	4 Wed	81 3589	822 1741	198 6370	4298
24 Mar (83)	6 Fri	1	47	11	14 Mar (73)	3 Tues	116 0413	758 1608	240 0474	4207

		* <u> </u>		CONC	URRENT Y	ZEAR.		
		Vikramo	r year			Jovian S	amvatsara.	Intercalated (adhika) and suppressed
Kab	Śaka	Chaitrādi Vi	Möshiidi solar ın Bengal	Kollam.	A D.	Southern system	Northern system	(<i>l'shaya</i>) true lunar months.
1	2	3	3a	4	5	6	7	8
4298 4299 4300 4301 4302	1119 1120 1121 1122 1123	1254 1255 1256 1257 1258	603 604 605 606 607	371-72 372-73 373 74 374-75 375 76	*1196 97 1197-98 1198-99 1199 1200 *1200 01	50 Anala 51 Pingala . 52 Kālayukta . 53 Siddhārthin . 54 Raudra .	54 Raudra . 55 Durmati . 56 Dundubhi . 57 Rudhirödgärm 58 Raktāksha .	6 Bhādrapada 4 Āshādha

LXXXII-Concld

The State of the S				COZ	IMENCEMENT	OF THE				1
5	SOLAR YFAR				Ludi solar		o Telegion Rabural I		on which	
Day and month A D	Wesk- day	Mo	ic of the s		Dry and month A D	Week- day	а	δ	c	Kab.
13	14		17		19	20	23	24	25	1
23 Mar (83) 23 Mar (82) 23 Mar (82) 24 Mar (83) 23 Mar (83)	0 Sat 1 Sun . 2 Mon 4 Wed 5 Thur	H 7 14 20 2 8		47	2 Mar (62) 21 Mar (80) 10 Mar (69) 27 Feb (58) 17 Mar (77)	0 Sat 6 Fri . 3 Tues 0 Sat . 6 Fri	9091 7641 26 4465 9902 1694 9777 8923 0812 5747	605 4056 541 3991 388 6432 235 8872 171 8807	219 1242 270 4346 239 6115 208 7660 260 0765	4298 4299 4300 4301 4302

TABLE LXXXIII A

Duration and Collective duration of true sclar honths, with increase of $a,\,b,\,c$ at each true saukrinti

By the Brahma-Siddhinta

1000 ths "sam"=solar samkranti Calculated for the year K Y 4500, (expired), A D 899-900

		8	T at 1	a in IU,Um the of circle,	1	tanto o ere	o and c the Lydon enst							
Lunt what mouth (ending at the	14 ten our 1	- S	lect iv o	cluration 1 se of a, b, c	Collective durition in days hours, etc., and collection increase of a, b, c from true Mesha samkranti to each true samkranti	s, etc , and Csha saibk ûnti	collective ranti to	At true solar	Leng	प् u	solar mont nd increase suc	Length of solar month proceding each true sankrants, and increase of α , b , c between each such sankrants	each truo s stween cack	ımkrantı,
secon los the two solr sum Arinks connec		Day	Veck	HMS	e	b	9		Doy	day Week	H M. S	В	٩	0
(a) man	~		7 4	15	9	-	8	6	2	=	13	13,	41	18
4		1	1											
1 Chartra	Mina suth (of premous year)		0	0 0	•	0	0	Mõsha-sath	•	•	•	0	0	0
2 Vaisākha	Vershabite sorth	, e	(3)	22 21 9	474 3381	122 5490	84 6833	Vrishabha sarh	စ္က	(8)	22 21 9	474 3381	122-5490	84 6831
3 Jyështha	Vithing fam			8 15 57	1111 7956	262 5752	170 6856	Mithuna sarh	ສ	ෙ	0 54 48	637 4575	110 0262	86 002 3
4 Ashadha }	CKorbs com			23 12 15	1820 1580	410 2049	257 2610	Karka sam	ឌ	<u>e</u>	11 56 18	708 3624	147 6297	86 575 \$
5 Sravana	Sumbe and	12.5		10 42 48	2480 1360	552 6492	343 4152	Տյւքիո	31	(3)	11 30 33	659 9780	142 1413	86-1842
6 Bhādrapada	Konus and	156		11 41 2		679 1575	428-1273	Kanyā sam	ឌ	ල	0 58 15	541 2818	126 5083	84 9821
7 Aévina	Tuli gam	186	Ŧ	22 35 20	3304 2747	784 1003	511 8051	Tulis sarh	ಜ	(3)	10 64 27	312 8509	105 2 128	83 3778
8 Kärttika	(Vrischika sarfi	216	216 (6)	20 28 50	3433 4472	869 9574	593 6979	Vriśchika sath	23	Ξ	21 63 21	129 1725	83 5571	81 8928
9 Mārgasira	Dhanus sam	246	Ξ	8 0 47	3116 4900	939 8537	671 4092	Dhanus sath	Si	ε	11 31 57	9993 0434	69 8963	80-7113
10. Pausha	(Makrra sard	275	(8)	16 6 58	3331 2241	4 5723	754 7299	Makrra sarh	82	Ê	8 6 11	9934 7333	64 7188	80 3207
11. Magha	Kumbha sath	305	£	2 49 9	3322 5044	73 21 45	835 3166	Kumbha sam	23	ε	10 42 11	9971 3103	08 6120	80-6167
12 Phalguns 4	Mina-sath.	334	3	22 4 25	3414 3380	154 7871	016 0387	Min win.	e:	ε	10 15 16	91 9930	81 7726	81 5921
following year)	VEshrenb (of following year)	365	3	0 13 0	3688 2050	255 8315	1000 0	Medin sain (of following year)	30	(2)	s 7 II	273 6176	101 0107	83 060 8

TABLE LXXXIII B

Value of c and of "equation c" at the several true samkrints

Correct for K Y 4000, A. D 899-900

c in 1,000ths of circle, "equation c" in 10,000ths

Samkräntı	С	"Equation c"
Mēsha-sam .	277 6064	0 9037
Vrishabha sam .	362 2899	14 4355
Mıthuna-sam	448 2921	41 1356
Karka-sam .	534 R676	73 5542
Sımha sam	621 0519	102 0578
Kanyā sam .	706 0241	118 5381
Tulā sam .	789 4020	118 9561
Vrišchila sam .	871 2948	104 1144
Dhanus sam .	952 0062	78 3666
Makara sam	32 3264	48 2336
Kumbha-sam .	112 9432	21 0624
Mina-sam.	194 5355	3 6494

TABLE LXXXIII C.

EXACT VALUE OF c AND OF " EQUATION c" AT THE MOMENT OF TRUE MESHA-SAMKRINTI AT BEGINNING OF EACH CENTURY K. Y

e in 1,000ths of circle "Equation c" in 10,000ths.

K Y	A D	c	"Eqn c"
3700	599 600	277 6399	0 9347
3800	699 709	277 6287	0 9340
3900	799 800	277 6175	0 9333
4900	899 900	277 6064	0 9326
4100	999-1000	277 5952	0 9319
4209	1099 1100	277 5840	0 9312
4300	1198-1200	277 5728	0 9305

Arg

TABLES LXXXIV, LXXXV.

"Equation b" and "Equation c" in whole numbers by the Brahma-Siddhanta and Siddhanta-Śirōmani

Corresponding to Tables VI, VII, "Indian Calendar."

For close detail Tables LV, LVI, (Vol XV above) are to be used.

"Arg"=moon's (b) or sun's (c) mean anom in 1000ths of circle

TABLE LXXXIV

TABLE LXXXV
Solar "FQUATION c"

Arg

Eqn

89 !

93 1

gυ

Arg

OCO

Lu	NAR	"	EQUA	TION	b	"
Eqn	Arg			Arg	Ī	E

A	rg	Eqn	Arg		Arg	Eqn	Arg
	00	140	1000		0	60	500
	10	131	990		10	56	490
	520	122	980		20 30	53 49	480 470
	530	114	970		40	46	
	540	105 97	960		50	42	460 450
1 '	550	81	950		80	92	400
1	560	88	940		60	38	440
1 /	570	80	930		70	34	430
1 (580 Ì	73	920		80	31	420
1.	590	65	910		90	28	410
1	600	58	900		100	25	400
1							
	610	51	890		110	22	390
	620	44	880	ì	120	19	380
	630	38	870	ŀ	130	16	370
	640 650	32 27	860		140	14	360
1	บอบ	21	850		150	12	350
	660	22	840		160	9	340
1	670	17	830		170	7	330
-	680	13	820		180	6	320
- [690	10	810	į .	190	3	310
1	700	7	800	f	200	3	300
1		١.		1	1	1 _	
- 1	710	4	790	l	210	2	290
- [720 730	1 2	780	l	220	1	280
- 1	740	1 1		l	230	0	270
- 1	750			i	240	1 0	260
	100	1 "	750	ì	250	0	250

AUXILIARY TABLE

8 4	Last figure of argument								
Difference in Lquo- tion	9	8	7	6	5	4	3	2	1
Lyffer In L	Add or substract								
9 8 7 6 5 4 3 2 1	8 7 6 5 4 or 5 4 3 2 1	7 6 6 5 4 3 2 2	6 6 5 5 4 3 or 4 3 1 1	5 5 4 4 3 2 2 1	4 or 5 4 3 or 4 2 or 3 2 1 or 2 1 0 or 1	4 3 3 2 2 2 2 1 1	3 2 2 1 or 2 1	2 2 1 1 1 1 0 0	1 1 1 0 or 1 0

TABLE LXXXVI.

TALUE OF G, b, c AT BEGINNING OF CENTURIES OF THE KALIYUGA, BY THE BRAHMA-SIDDHANTA.

K Y Cen- tury,	Begin- ning in A D.	Week- day.	а	ь	С
37 38 39 40 41 42 43	509 699 799 899 999 1099	0 6 6 6 6 6	6028 1929 4900 0921 3433 3593 2305 2584 1177 1576 49 0567 8920 9559	719'2529 308 0530 860 5614 449 3615 38 1616 626 9616 215 7617	282 9906 283 3962 281 0640 281 4695 281 8751 282 2807 282 6863

TABLE LXXXVII.

Increase of a, b, c for years of Kaliyuga century.

* = year of 366 days.

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Year.	Week- day	a	õ	c	Year	Week- day	а	ь	c
*2										
3 4. 1140 6560 775 6482 0 6151 *33 6 1531 3202 423 2549 998 5532 4 5 4741 3307 22 1003 998 9076 34 1 5470 0268 705 9987 0 5835 5 6 8342 0054 268 5525 999 2001 35 2 9071 3015 952 4509 999 8759 *6 0 1942 6800 515 0047 998 4925 36 3 2671 9762 198 903 998 1684 7 2 588 19867 797 7485 0 5227 *37 4 6272 6509 445 3552 998 4609 8 3 9482 6614 44 2007 999 3152 38 6 211 9575 728 0990 0 4911 9 4 3083 3360 290 6528 999 1077 39 0 3812 6322 974 5512 999 7836 *10 5 6684 0107 537 1050 998 4001 40 1 7413 3069 221 0034 999 760 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>										
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16 6 8965 3227 88 4013 999 6304 46 2 9694 6189 772 2997 0 3063 *17 0 2505 9974 334 8535 998 9229 47 3 3295 2936 18 7519 999 5988 18 2 6505 3041 617 5973 0 9531 *48 4 6895 9682 265 2040 998 8912 19 3 105 9788 864 0495 0 2455 49 6 835 2749 547 9479 0 9214 20 4 3706 6534 110 5017 999 5380 50 0 4435 9496 794 4000 0 2139 *21 5 7307 3281 356 9539 998 8305 51 1 8036 6243 40 8522 999 5064 22 0 1246 6348 639 6977 0 8607 *52 2 1637 2989 287 3044 998 7988 23 1 4847 3094 886 1499 0 1531 53 4 5576 6056 570 0482 0 8290	14	4	1763 9734	595 4970	1 0455	*44	6	2154 6376	243 1037	998 9836
16 6 8965 3227 88 4013 999 6304 46 2 9694 6189 772 2997 0 3063 *17 0 2565 9974 334 8535 998 9229 47 3 3295 2936 18 7519 999 5988 18 2 6505 3041 617 5973 0 9531 *48 4 6895 9682 265 2040 998 8912 19 3 105 9788 864 0495 0 2455 49 6 835 2749 647 9479 0 9214 20 4 3706 6534 110 5017 999 5380 50 0 4435 9496 794 4000 0 2139 *21 5 7307 3281 356 9539 998 8305 51 1 8036 6243 40 8522 999 5064 *22 0 1246 6348 639 6977 0 8607 *52 2 1637 2989 287 3044 998 7988 23 1 4847 3094 886 1499 0 1531 53 4 5576 6056 570 0482 0 8290 <td< th=""><th>15</th><th>5</th><th>5364 6481</th><th>841 9492</th><th>0 3379</th><th>45</th><th></th><th>6093 9442</th><th></th><th></th></td<>	15	5	5364 6481	841 9492	0 3379	45		6093 9442		
18 2 6505 3041 617 5973 0 9531 *48 4 6895 9682 265 2040 998 8912 19 3 105 9788 864 0495 0 2455 49 6 835 2749 547 9479 0 9214 20 4 3706 6534 110 5017 999 5380 50 0 4435 9496 794 4000 0 2139 *21 5 7307 3281 356 9539 998 8305 51 1 8036 6243 40 8522 999 5064 22 0 1246 6348 639 6977 0 8607 *52 2 1637 2989 287 3044 998 7988 23 1 4847 3094 886 1499 0 1531 53 4 5576 6056 570 0482 0 8290 24 2 8447 9841 132 6020 999 4456 54 5 9177 2803 816 5004 0 1216 *25 3 2048 6588 379 0542 998 7381 55 6 2777 9549 62 9526 999 4140 <td< th=""><th></th><th></th><th>8965 3227</th><th>88 4013</th><th></th><th></th><th></th><th></th><th></th><th></th></td<>			8965 3227	88 4013						
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*21 5 7307 3281 356 9539 998 8305 51 1 8036 6243 40 8522 999 5064 22 0 1246 6348 639 6977 0 8607 *52 2 1637 2989 287 3044 998 7988 23 1 4847 3094 886 1499 0 1531 53 4 5576 6056 570 0482 0 8290 24 2 8447 9841 132 6020 999 4456 54 5 9177 2803 816 5004 0 1216 *25 3 2048 6588 379 0542 998 7381 55 6 2777 9549 62 9526 999 4140 26 5 5987 9655 661 7980 0.7683 *56 0 6378 6296 309 4047 998 7064 27 6 9588 6401 908 2502 0 0607 57 2 317 9363 592 1485 0 7366 28 0 3189 3148 154 7024 999 3532 58 3 3918 6110 838 6007 0 0291	20	4	3706 6534	110 5017		50	0			
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24 2 8447 9841 132 6020 999 4456 54 5 9177 2803 816 5004 0 1215 *25 3 2048 6588 379 0542 998 7381 55 6 2777 9549 62 9526 999 4140 26 5 5987 9655 661 7980 0.7683 *56 0 6378 6296 309 4047 998 7064 27 6 9588 6401 908 2502 0 0607 57 2 317 9363 592 1485 0 7366 28 0 3189 3148 154 7024 999 3532 58 3 3918 6110 838 6007 0 0291 900 3218										998 7988
*25 3 2048 6588 379 0542 998 7381 55 6 2777 9549 62 9526 999 4140 26 5 5987 9655 661 7980 0.7683 *56 0 6378 6296 309 4047 998 7064 27 6 9588 6401 908 2502 0.0607 57 2 317 9363 592 1485 0.7366 28 0 3189 3148 154 7024 999 3532 58 3 3918 6110 838 6007 0.0291 29 3218	23									
26 5 5987 9655 661 7980 0-7683 *56 0 6378 6296 309 4047 998 7064 27 6 9588 6401 908 2502 0 0607 57 2 317 9363 592 1485 0 7366 28 0 3189 3148 154 7024 999 3532 58 3 3918 6110 838 6007 0 0291	24	2	8447 9841	132 6020	yyy 14 56	54	Đ	8111 Z803		
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27 6 3588 6401 908 2502 0 0007 28 0 3189 3148 154 7024 999 3532 58 3 3918 6110 838 6007 0 0291										
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129 T 0/88 8880 401 1040 880 0401 88 4 1000 2000									85 0529	
	729		סעטע עטיס	401 1949	1050 0501	•••	- ₹	.520 2000		

TABLE LXXXVIII.

TABLE LXXXVII-Contd

Values of a, b, c per day from Mina 1 to Mesha 2, the day of mean Mesha-samkranti.

Yea	Week-day		a		b	С	No of days interval from 0 Mčsha	Month			a	ъ	c
*6 6:	0	50	19 960 59 267 59 94]	ro 6	331 5051 314 2489 360 7011	998 6140 0 6442 999 9367	No of interv	and day					
•6	3 2	22	60 616 61 29	33	107 1532 353 6054	999 2292 998 5216	1	2	$-\begin{vmatrix} 3 \\ -\end{vmatrix}$	_{	4		
-6 •6	5 6 6 7 0 8 1 1 3	34 70 6	00 59' 01 27' 01 94' 02 62' 41 92	23 8 70 17 3	836 3492 882 8014 129 2536 375 7057 658 4496	0 5518 999 8443 999 1368 998 4292 0 4594	29 28 27 26 25	"	2 3 4		9502 4085 9841 0404 179 6724 518 3044 856 9364	874 9589 911 2506 947 5422 983 8339 20 1255	915 1286 917 8664 920 6042 923 3419 926 0797
	70 4 71 5 72 0 73 1 74 2	17 56 92	42 60 43 27 82 58 83 25 883 93	77 44 90	904 9017 151 3539 434 0977 680 5499 927 0021	999 7519 999 0444 1 0746 0 3670 999 6595	24 23 22 21 20	"	7 8 9	2 3 4 5 6	1195 5684 1534 2004 1872 8324 2211 4643 2550 0963	56 4172 92 7088 129 0005 165 2921 201 5838	928 8175 931 5553 934 2931 937 0309 939 7687
	75 3 76 5 77 6 78 0	47	484 6(423 9) 024 5(625 2(225 9)	150 897 644	173 4542 456 1981 702 6502 949 1024 195 5546	998 9520 0 9822 0 2746 999 5671 998 8596	19 18 17 16 15	"	11 12 13 14	0 1 2 3 4	2888 7283 3227 3603 3565 9923 3904 6243 4243 2563	274 1671 310 4587 346 7504	942 5065 945 2442 947 9820 950 7198 953 4576
	81 82 *83	6 S	1165 2 3765 9 2366 5 5967 2 9906 5	204 951 2698	478 2984 724 7506 971 2027 217 6549 500 3987	0 8898 0 1822 999 4747 998 7672 0 7974	14 13 12 11	27 21 23	16 17 18 19	5 6 0	4581 8882 4920 5202 5259 1525 5597 7845	455 6253 491 9169	958 9332 961 6710
	85 86 *87 88	3 4 6	4647	9258 6004 9071	746 8509 993 3031 239 7552 522 4993	999 3823 998 6748 0 7050	10	"	20	2	5936 4162	564 5002	
	89	0		2565	768 951: 15 403	4 999 2899	9 8 7	,,,	21 22 23 24	3 4 5 6	6275 048 6613 680 6952 312 7290 944	1 637 - 0838 1 673 3752	972 6221 975 3599
	*91 92 93 94	2 4 5 6	9389 2989	9311 2378 9125 5871	791 051	6 999 9050	11	"	25	Ō	7629 576	745 958	980 8355
	*95 96 97 93 *99	0 2 3 4 5	413 773 133	1 2618 0 5688 1 2431 1 9178 2 5928	5 566 699 1 813 151 8 59 604	0 5202 19 999 8126 41 999 1051		,, ,,	26 27 28 29	1 2 3 4	7968 208 8306 840 8645 472 8984 104	1 818 541 1 854 833	986 3111 989 0488
	100	0	887	1 809:	2 588 80			M58	ha 0 1 2	5 6 0	9322 736 9661 368 0		

TABLE LXXXIX

SUN'S EQUATION OF THE CENTRE AND SINE-VALUES ACCORDING TO THE BRAHMA-SIDDHANTA.

Senai				SINE OF ANOM ANGLE				EQUAT	иои			Serial			
No of sine.	Str	's M	ean an	OM	Value in minutes	ın Diff		dat	ation	Differen per mini of anon	te				
1	2				3	4		5				7			1
	٥	,	0		,	,	0)	, "	"	-	,) ,	,
0	0	0	180	0	0	014	0)	0 0	2 27	18	0 0	36	0 (ο σ
1	3	45	176	15	214	214	0	8	32 50)	18	3 45	35	6 18	5 1
2	7	30	172	30	427	213	0	17	7 261		18	7 30	35	2 30	2
3	11	15	168	45	638	211	0	25	27 92		19	1 15	34	8 45	3
4	15	0	165	0	840	208	0	33	46 05		198	6 0	34	5 0	4
5	18	45	161	15	1051	205	0	41	<i>5</i> 7 02	2 1822 2 1287	198	3 45	34	l 15	5
6	22	30	157	30	1251	200	0	49	<i>5</i> 5 97		202	30	337	7 30	6
7	26	15	153	45	1446	195	0	57	42 97		208	15	333	45	7
8	30	0	150	0	1635	189	1	Б	15 60		210	0	330	0	8
9	33	45	146	15	1817	182	1	12	31 46		213	45	326	15	9
10	37	30	142	30	1991	174	1	19	28 17	1 7562	217	30	322	30	10
11	41	15	138	45	2156	165 156	1	26	3 32	1 6604	221	15	318	45	12
12	45	0	135	0	2312	147	1	32	16 92	1 5646	225	0	315	0	12
13	48	45	131	15	2459	135	1	38	8 96	1 4369	228	45	311	15	13
14	52	30	127	30	2594	125	1	43	32 27	1 3305	232	30	307	30	14
15	56	15	123	45	2719	113	1	48	31 62	1 2028	236	15	303	45	15
16	60	0	120	0	2832	101	1	53	2 24	1 0750	240	0	300	0	16
17	63	45	116	15	2933	88	1	57	4 12	0 9367	243	45	296	15	17
18	67	30	112	30	3021	75	2	0	34 87	0 7982	247	30	292	30	18
19	71	15	108	45	3096	63	2	3	34 49	0 6706	251	15	288	45	19
20	75	0	105	٥	3159	48	2	6	<i>5</i> 36	0.5184	255	0	285	0	20
21	78	45	101	15	3207	35	2	8	1 99	0-3651	258	45	281	15	21
22	82	30	97	30	3242	21	2	9	24 14	0 2235	262	30	277	30	22
23	86	16	93	45	3263	7		10	14 43	0 0745	266	15	273	45	23
24	90	0	90	0	3270		2	10	31 19		270	0	270	0	24

No 12-THE KEDARPUR PLATE OF SRI CHASDRA DLVA

BY NAUM KANTA BRATTACALL, M.A., CLUSTON DATES ME FUR

In the October number of the Dates Review for 1912, Mr. J. T. Rossin 1.4.5. p. 11-31-12 a note given him by the late lamented scholar B but Gregorials. It is a training to particular materials of the first time established the fact that a Buddhist lames keep a result of "Chandra" at the end of their names had ruled in East Bungal with Virtuin particles at the capital about the 10th or 11th century of the Chandra Lames and with Chandra training as the recapital about the 10th or 11th century of the Chandra Lames and of the Chandra training as the particle of the Chandra training as the particle of the Chandra training at the Chandra training at the Chandra training at the Chandra Date at Rampal in the Munchigan subdivision of the Date of the Archive training at the Prof. Radha-Govinda Basak, M.A. go as further important to the discussion of the published this plate first in the Sediana and Balles turber of the All particles of Salutya for 1320 B.S. and finally in the Epagraph, a form of laws. Note All particles in the Sediana and Balles turber of the All particles.

The present plate is the third of Sil-Chandra-Dex. It is found in April 1919, in excavating earth from a ditch at Kedarpur in the Mödöripur which is a first far for District of Bengal. It was preserved in the custody of the sound to the of the heavy of Middle English School. I came to know of the find from a friend stain his to he is a close of the Dacca Museum by the Hon'ble Mi. T. Emerson, C.I.V., I.C.S. then where he is a little of the J. N. Roy, I.C.S., Magistrate of Landpur, and Mi. N. S., which is all of lower of Mādāripur.

The plate measures $8\frac{1}{2} \times 7\frac{1}{4}$, and is therefore elightly in iller that it plate plate is by Mi Basāk, which measures $9\frac{1}{2} \times 8^{2}$. The Royal Soul of the Chandras is attached to the radius of the top of the plate. It displays the Wheel of the Low with two concerns the constitute sides, symbolical of the first "Turning of the Wheel of the Low" at the Deve Park, with a present Sārnāth near Benares. It is noteworthy that the Pālus of Bengul who preceded the Chandras, and who were Buddhists as well, had similar devices on their reals. The rank of Set Sets Chandra-Dēva[h] is written in relicf below the Wheel in the present scal

The plate is incomplete and appears to be no grant at all, but only a plate kept ready, with the stereotyped portion of the grant inscribed in the office of issue, to be tilled in with the necessary remaining portions as occasion arose. The plate is full of engraver's mistakes of a serious nature. It may be noted that Ködärpur, where this plate was found, contains the ruins of a royal settlement surrounded by a broad ditch as well as a hig silted up tank, commonly associated with the memory of Kedär Räy, one of the famous twelve chieftains who ruled Bengal before the country was completely dominated by the Mughals. Kedar Räy had his capital at Śripur, which, from the description of Ralph Fitch, appears to have been a flourishing town in 1585, and the reasonableness of having a second capital, only a few miles off, is not very apparent. Of course a thousand and one contingencies might have taken the present plate to Kēdārpur, where it has now been found, but the find of this unfinished plate also makes it possible that the ruins at Kēdārpur may be those of the Chandras who preceded Kedār Rāy by no less than five hundred years

The plate is inscribed on one side only and there is a vacant space of about two inches at the bottom. The inscription contains 18 lines of writing. The letters are 24 to 30 inch in keight and are in most places well inscribed. Mistakes of engraver or scribe are, however,

numerous and they have rendered the preparation of a correct text an undertaking of exceptional difficulty.1

The inscription refers to the reign of Śrī-Chandra-Dēva of the Chandra family of Kings who held sovereignty in East Bengal for some decades before the rise of the Varmans and the Sēnas in that part of the country, towards the end of the Pāla rule in North Bengal. It is written in what may be called the Bengali Script of the 10th-11th century A.D. The language of the inscription is correct Sanskrit verse, except in the portions spoiled by engraver's mistakes. The last three lines are in prose.

There is nothing very special as regards orthography. The use of va for ba is almost the rule in the later East Indian epigraphs, there being no discrimination between them, as in the modern Bengali language. The avagraha is once used and once omitted. The spelling of the word nistrinia with \dot{n} is remarkable. Superimposed r has doubled almost all consonants.

From a comparison of the abstract of the Idilpur plate of Śri-Chandra published in the Dacca Review, referred to above, with the contents of the present plate, it is evident that the two plates are copies of the same draft. The Idilpur plate seems to have an extra Ślōka towards the end, borrowed from Śri-Chandra's Rāmpāl plate, which is otherwise the copy of a draft different from that of the Idilpui and the Kēdārpur plates. It should be noted, however, that the opening invocatory Ślōka is identical in all the three plates

Śri-Chandra seems to have been the only king of the Chandra family who was powerful enough to issue copper-plate grants, as the three plates hitherto discovered are all in his name. In order, therefore, to bring together all the epigraphical material available for his history, I quote below the necessary portions from Bābu Gangāmōhan Laskar's abstract of the Idilpur plate, as published in the Dacca Review The plate is reported to exist still, but it is in the custody of people who are unwilling to show it to anybody again.

2" The inscription gives the names of three kings —(1) Suvarna-Chandra. (2) His son (3) Trailókya-Chandra's son (Śrī)-Chandra-Dēva The last of these Trailökya-Chandra kings issues a command from his victorious camp at Vikrampur making a gift of certain lands at the village called Leliya in the Kumaratalaka sub-division (mandala) of the Satata-Padmavāti district (vishaya) The nāme Satata-Padmāvāti literally means 'with-bank-Padmā-house' and was most probably the name of a district on the banks of the Padma river. some of the donees are still legible and the measures of the area of the granted lands are called dronas and pātakas, as in the Asrafpur plates Paramount titles such as Paramēśvura, Paramabhattāraka and Mahārājādhirāja are attached to the names of (Śrī)-Chandra-Dēva. The title Parama-Saugata (the devout worshipper of Sugata, ie Buddha) is prefixed to the name of The characters used are probably of the 12th century type of the Bengali alphabet The seal attached to the top of the plate resembles the seals found on the plates of the Pala kings The inscription under notice is very important, as it, like the Asrafpur plates of Devakhadga, shows the existence of Buddhist kingdoms in East Bengal in the period not much anterior to the conquest of Bengal by the Mussalmans

"The plate is inscribed on one side fully and on another side partly The writing on the second side has become almost defaced This defaced portion contains the names of the donee and the particulars of the lands granted There are altogether 36 lines of writing An analysis is given below —

Lines 1-4 Contain a verse in honour of Buddha, probably.

¹ I should gratefully acknowledge here the help that I have received in this respect from Prof Abhaya Charan Chakravarti, MA, of the Jagannath College, Dacca, without whose help I could hardly have made any headway, especially with the passages that are marred by the engraver's mistakes. I also owe some improvements in the reading of the text to the suggestions of my friend Prof Basak, in whose company I had the opportunity of revising my first transcription.

2 [In this extract, the discription marks, according to the latest emendation, have been adopted — H. K. S.]

Lanes 4-5 State that there was a king named Suvarana-Chandra who was neither purified in fire nor measured on the scales (like gold) but was by nature endowed with greatness (heaviness) and whose deeds were good.

Lines 5-6. State in a verse why the king was called Suvarnna-Chandra.

Lones 6-9 The above king got a son named Trailökya-Chandra, whose look was sacred, who was afraid of the next world, by whom the living world was consoled, whose mentorious deeds were well known throughout the three worlds.

Lines 9-10. Some further epithets of the same king who satisfied his desire of conquering the whole world and who extinguished the fire of his enemies.

Lones 11-13. More eulogistic epithets (of Trailökya-Chandra-Döva).

Lines 14-15. The above king had a son named (Sri)-Chandra who was like Indra and whose prowess was like Indra and who was born at the auspicious moment and the signs at whose birth were indicative of royal fortune.

Innes 15-18. Some eulogistic epithets of (Śrī)-Chandra-Dēva.

Lines-18-19 From the victorious camp pitched at Vikramapura,

Inne 20, the devout worshipper of Sugata (Buddha), the meditator of the feet of (i.c. the son of) Mahārājādhirāja Trailōkya-Chandra-Dēva, the Paramēśvara, the Paramabhaṭṭāraka,

Line 21, the *Mahārājādhırāja*, the *Śrīmān*, Śrī-Chandra-Dēva, being in good health and having done honour to all the following royal officers and villagers assembled at the village of Leliyā,

Inne 22, in the Kumāratālakā-maņdala of Satata-Padmāvā(tı) district,

Lanes 29-30 Contain the names of the donees."

The following is an abstract of the present Kēdārpur plate --

The inscription opens with a salutation to the Buddha, the Dharmma, and the Sangha,—the three jewels of the Buddhist faith. It then goes on to say that there was one Pürnna-Chandra by name who was the possessor of large forces. He was neither of royal birth nor of pure caste, but he obtained a son Suvarnna-Chandra by name, resplendent as gold (v. 3). Suvarnna-Chandra was a famous man of religious character, and his son was Trailōkya-Chandra (v. 4) Trailōkya's conquests extended far and wide and he was a terror to his foes (v. 5). Trailōkya's son was Srī-Chandra who was extremely virtuous (v. 6). He was a great conqueror whose fame at arms had reached the heavens (v. 7). With this last king Śrī-Chandra-Dēva who was to have issued this plate from his victorious capital at Śrī-Vikramapura the inscription stops

I edit the inscription from the original plate, now in the Dacca Museum.

Seal.

यो श्रीचन्द्रदेव[::]

TEXT

1 सिंहिरस्तु¹ खस्ति । वन्द्यो जिनः स भगवान् करुपैकपादं

² धम्भो³म्यसे³ विजयते जगदेकदीप: [।*] यत्सेवया

¹ Expressed by a symbol [This symbol is generally taken for om, but the writer has put forward arguments in his article "Some Image Inscriptions from East Bengal" published below in favour of this symbol being read 'Siddhir=astu'—Ed]

² Bead well.

⁸ Read el.

- महानुभावः संसारपारमुपगच्छति भिन्तुसद्धः¹ ॥[१*] पूर्ण्-3 सकल
- । यस्रोषष²योष³त्व[त]मातपत्रमपत श्रोमानासौदासीरजं रजः 4
- प्रकृत्यैव तलाधिरूट: किन्त विश्रही न नामी ត । तद्यापि मरिस्णा
- ल्याणसुवर्णकल्प: सुवर्णचन्द्रसुक्ती ततीभूत् ॥[३*] पुर्णावलीकः
- समाम्बासितजोवसोकः [।*] त्रैसोक्यसंकीर्त्ततपुण्यकीर्त्तः कभीरोर्लोकाः
- लोक्यचन्द्रीऽस्य व(ब)भूव पुत्रः ॥[४*] चतुः,पयोराश्चिसमाप्तपृथ्वीजयाभिलाषो वि-S
- वैरिवर्फ्डि निस्त्रिश्लताजलीन ग्री यहेष Ω प्रयोध्वलब्धः 11[4. कार⁸
- त्रोमान् श्रीधन्द्रदेव: ममजनि तनयस्तस्य सहत्रमेव(ब)न्धोः क्रृगर्ममे स⁰यातुः 10
- दोपवादेकमूक: [।*] प्रेच्यः पीनो गुणाना निर्धिरिति परगणमखरो 11
- श्रियम तिरभसादर्थतो विषयासिक्षपचाहिपचे यिखना(ना)भत्त वैधा विषा 12
- स्रष्ट. पार्थिवपांसुदोहरसञ्जवाघनदिगानै विताणामनिसे-13
- केश्रिष्टासरसामपूर्व्वपलितभानतं [1*] ह्रन्दारकी: दृदेण 1.1
- नियनो र्णेस्13ष् यस्य र्जसां सन्तानी समारीपयन् 7.5 যत:¹⁴ [0*] Ħ
- त्रीविक्रमपुरसमावासितत्रीमज्जयस्कन्धावारात् परमसीगतो 16
- महाराजाधिराजः त्रीत्रैलोकाचन्द्रदेवपादानुध्यातः 17
- रमभद्दारको महाराजाधिराज: श्रीमान् श्रीचन्द्रदेव. 18

TRANSLATION

(Lone 1.) May success attend ! May welfare accrue!

(Verse 1) Adorable is the Lord Jina, the only receptacle of mercy. Victorious also is By worshipping them, all the high-minded Congregation the Law, the only light of the world of Blukshus cross to the other side of the world.

2 Read &

। Read ट

² Read ब्रि. [This corrupt pada has not been properly interpreted. The letter स after स (°) is not seen on the impression A plausible emendation which I would offer, with much hesitation though, is श्रमा[इडि]च[*]सि [पे] सु [स्व] and translate the passage thus 'afraid of which (श.६ dust) the enemy (kings) sought refuge under his parasol giving up (all) shame '-H K S] 6 Metre Indravajra

Metre Anashtubl 4 Read ti

s Metre Upajāti

Read T

⁸ Motre Upajāti

¹¹ Metre Sragdhara

¹² This line is proposed to be thus restored —स्पृष्ट: पार्थिवपांसुदी इटरसञ्चधाधनेहिंगाजै.

¹⁸ Delete स

¹⁴ Metre Sardularıkındıta.

- (Verse 2.) There was one Pürnna-Chandra by name, favoured of the Goddess of fortune, the bold canopy of dust raised by whose vanguard (in battle) was welcomed by the wives of the Sun-God.¹
- (Verse 3) By nature endowed with majesty, he was neither purified in fire (like gold or kings²) nor weighed in balance (like gold or like kings), yet from him came forth the meritorious Suvarnna-Chandra resplendent as gold
- (Verse 4.) Of him, who was afraid of sinning against the other world and whose sacred fame was sung throughout the three worlds, was born the son Trailökya-Chandra, the (mere) sight of whom was meritorious,—who was beautiful to look at, and who was a solace to mankind.
- (Verse 5) Not fond of (the possession of) ushayas (districts) [or, devoid of covetousness], but bent on conquering the (whole) earth limited by the four oceans, he put out in battles the fire, uz his foes, by water, uz his creeper-like sword.
- (Verse 6) To him, who was a friend of the right path, was born a son, the prosperous Srī-Chandra-Dēvs who was kind (even) towards mischievous endeavours, full of praise for others' good qualities, (but) absolutely dumb to the exposition of (others') faults, a well-built figure, pleasant to the sight and a repository of all virtues. Him, who was averse to all worldly attractions (vishay-āsakti), the Disposer forcibly endowed with Śrī (fortune) both in name and in reality.
- (Verse 7) The multitude of dust particles raised by the victorious (king) in battles, met by the Elephants, the lord of the (ten) quarters completely engrossed by the proud desire of coming in contact with the (aforesaid) kingly dust, and avoided from a distance by the gods whose eyes could not close (against it), proceeded towards heaven, causing on the hair of the keavenly nymphs the unprecedented illusion of whiteness of old age.

(Innes 16 to 18) From his prosperous and victorious capital established at Śri-Vikrama-pura, he, the devoit worshipper of Sugata, the Paramēšvara (great lord) Paramabhattāraka, (the great protector) Mahārājādhirāja (the paramount sovereign), the illustrious Śii-Chandra-Dēva, who meditates on the feet of the Mahārājādhirāja Śri-Trailōkya-Chandra-Dēya, in good health—.

^{&#}x27; [See above, page 191, note 3 —Ed] 2 [The so called Agnikula Kahririyas —Ed] 4 [qrfdqqfg is the dust of the Earth It is a well known fact that elephants are found of playing with

No 13-A NOTE ON THE DATES OF THE GUPTA COPPER PLATES FROM DAMODARPUR.

Br K N Direnit, MA.

The discovery of the Damodarpur plates has thrown new light on the fortunes of the Gupta dyrasty in Lastern India. The plates have been edited by Mr. Radha Govinda Basak above Vol. XV., pages 113-115. I wish here to point out certain inaccuracies in the readings of the dates as read by Mr. Basak, which I first noticed when I read his paper and subsequently verified by reference to the original plates, now preserved in the Varendra Research Society's Museum at Rajshaha.

The date of the record pt to which has been read by Mr. Basak as 129 is to be read as 128. The unit figure which is a vertical line with a slight bend, and a script or small horizontal line at the top end, must be full in as the symbol for 8, while the symbol for 9 has a loop at the top

The fifth plate has lost the name of the reigning Gupta sovereign, but the date has been fairly well havered It has been read as 214, but I see no trace of a 'ten' in the second frage, but a clear ' that' denoting 20, the date thus being 224. That some Gupta sovereign held away over North Bengal as late as 221 G E or 543 A D, that is eleven years after the date of the Mandasor pillar inscription of Tabidharman (532 AD) is an important result It is no larger possible to assume with Mr. Basak that the Gupta Emperor who made the grant was Bhanng apin I as the difference between the date of the plate and the only known date for Bhanngupta (tir, 191 (inpin Era) is now 33 years. The fourth and fifth plates seem to be reparated by a ruder margin than that existing between any other two plates of the Damodarpur find. The intervening period of sixty year, roughly 164-224 Gupta Era (=483-543 A.D.) witnessed the gradual diminut on of the Gupta dominion and the slow shifting of the centre of their power to the cust. It also witnessed the rise and fall in succession of the Hūna chicftains Toramana and Militabula, and the transitory success of the Malava chief Vishnuvardhana Yasadharman Other dynastics like the 'Vardhana' kings of Thanesvar and the Maukhari rulers of Kasala were coming into power on the western outskirts of the Gupta Empire, the latter dynasty in particular having carried on an incessant warfare in Oudh and adjacent regions with the Guptas It was probably the ascendancy of the Maukham rulers in Ayodhya that drove the 'noble born 'Ampiadeva (the donor of the fifth Damodarpur plate) from his native place Ayodhya to the distant Paupdravardhana province, which may seem to have been one of the last retreats of the Imperial Guptas. The Jaunpur inscription of the time of the Mankhari Isvaravarman, though not detad, must belong to the same period as the fifth Damodarpur plate, as we know from the Haraha inscription that Isvaravarman's son Isanavarman had fully established himself in Oudh by 555 A.D.

No 14.—SOMALAPURAM GRANT OF VIRUPAKSHA SAKA 1889 By K. V Subrahmanya Aiyar, B A., M.R A.S., Ootagamund.

This set of three copper-plates, marked No 2 in Appendix A of Rao Bahadur H Krishna Sastri's Annual Report on Epigraphy for 1913-14,2 is edited below for the first time with the below of one set of impressions kindly placed at my disposal by him

The plates are reported to belong to a Kuruba ryot of Somalapura in the Bellary taluka of the Bellary District. They were uncarthed years ago while digging foundations for a house; but were secured in 1913, for the examination of the Assistant Archeological Superintendent,

^{1 [}The reading at the end of 1 1 in Plate V of the Damodarpur Plates is probably Kumars. - Ed.]

² See also p 95, paragraph 25, of the same report.

Southern Circle, through the kind offices of the Tahsildar of the talinka, by the then Kanarese Epigraphical Student, Mr. K Rama Sastri. Regarding the description of the plates Mr Krishna Sastri has made the following note on the cover of the ink-impressions he sent to me.—

"Three plates with rounded tops of which the first and last are written on the inner sides only. They are held together by a ring which passes through a round hole bored at the top of each plate. On the ring, which is nearly $2\frac{1}{4}$ in diameter and $\frac{1}{4}$ in thickness, slides a circular seal shaped like a signet ring. The seal measures $1\frac{1}{4}$ in diameter and bears in relief on its surface at the top the sun and the crescent and a standing boar facing the proper left. Below it is what looks like a floral device. The plates measure $9\frac{1}{4}$ by $6\frac{1}{8}$. The circular top measures $1\frac{1}{4}$ from the base to the middle of the arc."

The plates are written in the Nandi-Nügarī characters throughout excepting the syllables "Srī-Virāpāksha" at the end which are in Kannada The inscription is in a good state of preservation the only places where the letters appear slightly damaged are at the commencement of lines 20 and 68

The language of the inscription is Sanskrit verse from beginning to end. The description of the boundaries in $d\bar{e}\hat{s}abh\bar{a}sh\bar{a}$, promised by verse 46 (II. 71, 72), is left blank for reasons which cannot be guessed at this distance of time.

As is usual in the copper-plate grants of Vijayanagara kings, this record contains evident mistakes of spelling such as the frequent substitution of sa for śa (ll 1, 4) and vice versa (ll. 1, 3), tha for ta (ll. 5, 16), dha for tha (1 43), omission of visarga (ll 5, 8, 13) and its retention in places where it has been changed into u (l. 42); unnecessary insertion of anusvāra (ll 37 and 38); etc Conjunct consonants are sometimes written side by side as in द्याद् (l 2), पान्यक्षर (l. 37) and खड्मायत (l 33). In चतुपर (l. 45) and भूद्र (l 12) the rules of sandhi have not been properly observed u has been unnecessarily doubled in खिन्चिया and visarga has been changed into double u ता गुणेर्ने के (l. 27). Other instances of mistakes are कीन for उने (l 45), उने for अने (l 13) and धनेय for धनेय (l 17) As all the mistakes occurring in the record have been corrected in the text or in the foot notes, they have not been given here in more detail.

The first three verses are invocations addressed to Siva, Ganapati and the boar incarnation of Vishnu. The fourth introduces the Moon, and the fifth refers to Yadu and Väsudöva. The historical portion commences with Singama (v. 6). Hisson was Bukka. When he became king, the prosperity of the Karnāta kingdom was permanently established (vv. 7 and 8). Harihara (II) was born to him, he filled the quarters with the wealth of his charity (v. 9). He had a son named Pratāpa-Dēvarāya (I) by whom the Turushkas and hostile kings were overcome (vv. 12 and 13). His queen was Dēmāmbikā and their son was Vijayabhūpati, renowned for his wisdom (v. 14). Vijayabhūpati's son by Nārāyanīdēvī was Pratāpa, also called Praudhapratāpa (v. 15), who obtained from his elder brother the kingdom of Ghanādri (v. 16). His son by queen Siddaladēvī was Virūpāksha. The titles Rājādhirāja (v. 18), Rājaparamēšvara (l. 42), Mūrurāyaraganda, Pararāya-bhayaškara and Hindurāya-Suratāna and Chhurikā-bhālanētra (v. 20) are given him. It is said that he obtained the kingdom by his own prowess and ascended the ancestral throne on the bank of the Tungabhadrā, in the presence of god Virūpāksha (vv. 21 and 22).

In speaking of the succestors of Virsipāksha, our record refers to the valour of Bukka I, the munificence of Harihara II, the provess of Dēvarāya I and the wisdom of Vijayabhūpati. The same is pithily expressed in a single couplet elsewhere! thus:—

मतौ वृक्षमहोपालो दाने दिस्देश्वरः । मीर्व्यं त्रोदेवरालेमो ज्ञाने विजयभूपतिः ॥

¹ South-Ind Inser., Vol I, p 163, vorse 15.

The statement that when Bukka I, one of the two earliest sovereigns of, the Vijayanagara dynasty, ascended the throne, the prosperity of the Karnāta kingdom was well established, is of particular interest to the student of history, as it seems to hint the probable fact that the Vijayanagara dominion was founded on the rules of the Hoysala (i.e. the Karnāta) dominion, which was wrecked by the Muhammadan invasions of South India; and shows also that the inveterate feud between the Vijayanagara kings and the Muhammadan monarchs should have risen even from the very inception of the new Hindu kingdom. There is not much doubt that the country over which Bukka ruled was a portion of the Karnāta empire and that the Vijayanagara kings were the political successors of the Hoysalas

Of greater importance are the statements of our plates that Pratapa, also called Praudha-pratapa, was the younger son of Vijayabhūpati, that he obtained from his elder brother,—showing clearly that he held a subordinate position under him,—the government of Ghanādri, and that Virūpākaha II was his son.

The Satyamangalam plates of Dövarāya (II)² state that Vijayabhūpati had two sons of whom the elder was called Dövarāya and the younger Pratāpa-Dövarāya. From this it is clear that both the sons had in common the name Dövarāya. The existence of these two sons of Vijayabhūpati, though not with their names specified, is recognised in the three copper-plate grants of Virūpāksha known to us so far, viz. the Sajjalūr plates, the Śriśailam plates and the present Sömalāpuram grant. These, being directly concerned in tracing the main line of Virūpāksha, naturally enough, omit to mention the name of the elder. While the Śriśailam plates call the younger Pratāpa-Rāya, the other two give the additional information that he was renowned by his title Praudhapratāpa. Thus, from all these sources it can be gathered that while the first son of Vijayabhūpati was known by the more name Dövarāya—with or without the common addition of Virapratāpa which is generally assumed by Vijayanagara kings—the younger was always called Praudhapratāpa or Pratāpa-Dövarāya which is sometimes supplemented in stone records by the epithet gajavātļai-landaruļiya. Among the stone records of Vijayanagara kings, the following are clearly attributable to the second son of Vijayabhūpati :—

No. 92 of the 3 collection for	Epig	raphic	al	Dated in Śaka 1351 in the reign of Pratāpa Dēvarāya, son of Vira-Vijayarāya.					
No. 91 of 1918	•	•	•	•	Dated in Śaka 1352 in the reign of Praudhas. Dēvarāya-Mahārāya, son of Vira-Vijaya- rāya-Mahārāya.				
No. 68 of 1918	•	٥	•	•	Dated in Šaka 1367 in the reign of Pratāpa- Dēvarāya-Mahārāya, son of Vira-Vijaya- rāya-Mahārāya				

Thus it is beyond doubt that the second son of Vijayaraya or Vijayabaüpati was not only called Prataparaya and Praudhapratapa, but had the additional name Dövaraya suffixed to these names Further, the Madras Museum plates of Dövaraya II⁶ refer to a younger brother of his named Śrigiri who was governing Maratakanagara in A.D. 1424-5 and the Satyamangalam plates of Dövaraya II, dated in the same year, imply that his younger brother Pratapa-Dövaraya was

¹ If Mr. Rice has correctly read nijāgiajāprāptam=anādi-rājyam (p 186 of Ep. Garn, Vol. III), it is evidently a mistake of the engraver for nijāgrajāt=prāpta-Ghanādei-rājyah given in our plates. His remarks (stad, introduction, p 23) that Pratāps or Praudha-pratāps optained the immemorial kingdom from his slider sister requires modification.

² Ep. Ind., Vol III, p. 87 f.

⁴ Ep. Ind , Vol XV, pp 8 ff.

^{*} This is a shortened form of Praudhapratapa.

^{*} Ep Carn, Vol III, pp 185 ff, M1 191.

e Ep. Ind, Vol VIII, pp. 806 ff.

² D B

There is thus no doubt that Pratapa-Devaraya is identical with ruling over the same district Śrigiri and this fact has been pointed out by Mr Venkayya in his Annual Report on Epigraphy for 1906 (p 82) It may be added that the name Praudhapratapa-Devaraya was already assumed by Dēvarāya I 1 A stone inscription of this second son under the name Śrigirinātha-Udayar, dated in Śika 1348, has also been discovered ²

In the face of the inscriptional evidence furnished in a number of genuine copper-plate grants and stone records referred to above, we do not attach any value to conclusions differing from recorded facts as have been arrived at by the late Mr T. A. Gopmatha Rao in editing the Śriśailam plates, where he has vainly attempted to show that there was but one son of Vijayabhūpati, by name Dēvarāya He has advanced no valid grounds for disproving the identity of Śrigiri with Praudhapratāpa-Dēvarāya, the second son of Vijayabhāpati.

The first two sons of Vijayabhūpati being known by the name Dēvarāya, it is but natural to mistake the sons of one of the Devarayas for those of the other. But the fact mentioned in our inscription, viz that Virūpāksha was the son of the second son of Vijayabhūpati, whom we have pointed out above to have borne the full name gajavēttai-kandaruliya Praudhapratāpa Pratāpa Devaraya, is of importance as it conclusively controverts the commonly accepted view, viz that Mallikarınına and Virūpāksha were the sons of Devaraya II, the first son of Vijayabhūpati. this connection, we may point out that two unpublished stone inscriptions furnish definite information. They come from Kundanis in the Salem District and Conjeeverams in the Chingleput District and state that Mallikärjuna and Virūpāksha were the sons of Gajavēttur-kandaruliya Praudha-pratāpa-Dēvarāya-Mahārāya Here the mention of the epithet Praudhapratāpa makes it certain that the king referred to is the younger son of Vijayabhūpati. Another stone inscription of Virūpāksha,5 dated in the cyclic year Šārvari, calls him the son of Gajavēttai-Pratāpa-Dēva-It may be noted that while the mother of Virūpāksha was Siddhaladēvī, the mother of Mallikarjuna was Pounaladevi, who must have been two different queens of Praudhapratapa-Dēvarāya, the second son of Vıjayabhūpatı

Our record is dated in Saka 1389, expressed by the word nav-āshta-guna-bhū, Sarvajit, Karttiga month, bright fortnight, Utthana-dyadasi According to Dewan Bahadur L D. Swamikkannu Pillai's 'Ephemeris,' this date corresponds to Monday, 9th November, AD 1467. It may be noted that the stone inscriptions of this king range in date from Saka 1387,6 Vyaya to Saka 14077 from which it would appear that he ruled for at least ten years But the latter date is very doubtful as the record is damaged

The generals and officers of this king made known to us from inscriptions are Vittharasa, Odeya,8 Saluva-Tırumalaraya,9 Saluva-Narasımha,10 and Sıngappa-(or Sıngapa-) Dandanayaka 11 Of these, Vittharasa-Odeya was in charge of Barakuru and Mangalore which he was governing Tirumalarāya was ın charge of Trichinopoly and Sāluva-Narasımha from Saka 1387 to 1398 developed into a usurper in later years. Two stone records of Virūpāksha in particular are

1911,

¹ No 188 of the Madras Epigraphical Collection for 1889,

² No 63 of the same collection for 1903

^{*} No 203 ditto

⁴ No. 39 ditto 1890

⁸ No. 681 ditto 1901.

Nos. 180 and 153 of 1901.

⁷ No 398 of 1909

Nos 30 and 153 of the Madras Fpigraphical Collection for 1901

^{*} Köyelolugu makes mention of this chief-see Ind Ant, Vol XL, p. 141,

¹⁸ Soon to 6, below

¹¹ No. 29 and 158 of the Madras Epigraphical Collection for 1901,

worth mentioning in this connection, of which the one, dated in Saka 1390, registers a gift by an agent of Saluva-Narasimha, and the other, dated in Saka 1394, records a gift for the ment of the same chief.

The subjoined inscription registers (1) a gift of land situated to the west of the Hagaii river within the boundary of the village of Yammeyönüi ii ii Mūda-nādu, a sub-division of Hastināvativalita, to a Brāhmana resident of Nitţura, the son of Sāra igʻirya, learned in the Vēdas, Sānkhya and Mimimsā and reputed as the author of a work called Bhāshya-Bhūshā, (11) gift of lands under the trinks called Krishna-taţi'ka, Kariyakere and iii the village of Chiţukanāhālu to another Brahman named Viiāpīkshūya, a physician and the village of Risēšvara, and (111) gift of the village of Similāpuram, with its name changed into Viiāpīkshūpuram, to a certain Viranārya, who, in turn, appears to have distributed it among Brahmans, dividing it into 60 vrittis. The distribution of the full 60 vrittis among Brahmans is not given. But it is said that four Brahmans and three others connected with the issue of the copper-plate grant received 8½ shares. The account for the rest is omitted, but it is evident from the blank space preceding verse 46 that possibly one or more plates containing the names of the rest of the vritti holders, which were intended to be inserted, have not been so done. The description of the boundary marks too, which must have followed this verse, is omitted, as already remarked.

Of the geographical names found in this inscription, Nittura, Chitukanāhālu, and Sōmalāpura are villages situated in the Bellary taluka, Hestināvatī is another name for Ānegondi near Hampi, Yammegēnāru is in the Bellary taluka at the place where it borders on Hospet, and the river Hagari bears the same name even now. It is noteworthy that the old name Sōmalāpura is retained at present while its later name Virāpīkshapura is given in Śaka 1389 has not survived Khāri, according to the dictionaries, is equal to 3 bushels and perhaps indicates the extent of land by its sowing capacity. The two tanks, Krishaa-tatāka and Kariyakere, must be looked for also in the Bellary taluka

The composer of the grant was Duiga-Bhaṭṭa, son of Mādhavārādhya, who figures also in Mi 121, and the engraver was the goldsmith Viranārya, son of Muddanārya ² This engraver is perhaps identical with Viranārya, the father of Mallana, who meised the inscription Mi 121.

[The following metres are employed vv 1-3, 5, 7, 11, 14, 15, 17, 20-53, Anushtubh, vv 4, 10, $S\bar{a}rd\bar{u}lavihr\bar{i}dita$, vv 8, 12, 13, 16, 19, $Upaj\bar{u}ti$, vv 6 and 18, $Up\bar{e}ndravajr\bar{a}$, v 9, $M\bar{a}lin\bar{i}$, and v 54, $S\bar{a}^lin\bar{i}$.]

TEXT

First Plate.

- 1 श्रीगणाधिपतये नमः। नमातु (स्तु।गित(शि)रखंबिचद्रचामरचारवे । नै-
- 2 लीकानगरारंभमूलस्तंभाय शभवे ॥ [१*] रचायै जगता भूयाद्दयाळुर्दि-
- 3 रदाननः [।*] पाथक्रोडाविधी यस्य परवतंति पयीधयः । [२*]
- 4 ष्ठाय यहंद्रानाळमूईनि । सप्तदोपवतो एखी लीलंग्नियोरदृख(भ्य)तः । [३*]

¹ No 79 of the Madras Epigraphical Collection for the year 1919 and No 188 of the same collection for the year 1902

² The Śrisailam plates were also incised by the same person (see above, Vol. XV, p. 19) where the name of the person occurs as Viranachārya, son of Muddanachārya

s Cancel the visarga omit the visarga, जी नाम्भिवदुव्यते is the reading in Mi 121

- 5 'श्रस्थि(स्ति) स्रोकमलालयानुजतया दीव्यनभोमंडले नचनाधिपति[:] प्र
- 6 भाभिरनिसं(ग्रं) दि[द्मं]डलोत्तासक्त[त्] [।*] चीराव्यिपथय कलानिधिरि-
- 7 ति खातस्(स्र)धांस्(श्रु)[:*] य(ख)यं । नोक्री यग्य(श) विभूषणत्वमगम-
- 8 नीपति[:*] ॥ [8*] वंसे(ग्रे) तस्येव संजातो यदुर्नीम सन्नोपतिः [।*] यदंस(श)जेन भू-
- 9 [रे]षा वासुदेवेन पालिता। [५*] यिसान्संगरिज सं (त्य) भंगुरभर' प्रत्यर्थिपृष्वी-
- 10 सतां 'सार्थी(धैं)भैगसुपागतैरिप गता दिखडलो संभ्त्रमा[त्*] । तत्कोिर्त्तिवि-
- 11 वरीषु गच्छति पुरी दिङ्गाथवंदिष्वही सहत्त. शशिमोक्टिमंडन-
- 12 मणि[:*] शो(सो)भूनः(त्रृ)पः सगमः ॥ [६*] ततीभूद्वसभूपानः सर्वभूप-कुलायणी[: ।*]
- 13 यस्रतापानले सर्व(वं) पतंगत्यरिभूसत: ॥ [७*] वार्नाटलच्सी[.*] सविलास[मा]-
- 14 स यस्मियाहीपे सहनोयकोत्तौ (त्तीं) [।*] भूमिस्त्रवैवाप' वसुंधरात्वं स्थिरित नाम
- 15 प्रथमं गुणोषे ॥ [=*] उदयमुद[य] शैलादुचदुद्दामते जा[:*] श्रम(श) धर इव बू(ब्)कच्मा-
- 16 °स्त:स्तंगमीले। इरिइरनरपालः प्रापदास[ा](ग्रा)[:*] समस्या(स्ताः) करप्टत-वसुपूरै[:*]
- 17 पूरवन् पूर्णधामा ॥ [८ⁿ] येनाकारि कली(लि:) स्नताधिकतरी येने(नै)ष [घं]द्यापत(य) क-
- 18 मेंब्र(ब्र)स्मपथोजनो(नि)¹⁰ प्रस(श्र)सिताधिषोपसर्ग: परा(रं) [।*] येनांभोनिधि-मेखला वसु-
- 19 म[ती ध]मेंण संरत्त(च्य)ते तस्यानेकदिगीस(श)पालि[त]11यशोविंबस्य केनी-12
- 20 पम(मा) ॥ [१०*] [मे]ळादेवीति विख्याता श्रोपार्वत्योस्तु मेळना[त्*।] सामीजाया¹³ सहोभर्त्त[:*]

¹ Ml 121 bas द्धि ए.

² Delete the punctuation

³ निम्न is also the reading in the Kannada text of MI 121 (see p 203 of *Ep Carn*, Vol III) ; but it is read as निम्ना in the romanised text given on p 135 Read _सिमान सगर o

⁴ Read Out

⁵ सर्चे^o is the variant given in M1 121 ⁷ ेस्प्रा^o is the reading in M1 121.

Kend वरिष्ठ
 व ग । s u correction from पु , read गुणीचे.

[·] Read भतस्यानि

¹⁰ Ml roads पयोजनी

¹ d 18 a correction from §

¹¹ The Kannada text of Mi 121 has होनीपना (p 203 of Ep Carn., III) and the romanised text has nasvopama ibid, p 135)

¹⁸ Another variant of this is पासीहायां which is found in M1 121

- 21 स[र्व्वर्या] पुरायलचाणा ॥ [११*] इंद्र. खदीधं, परिष्ठत्तीकासी सूमावश्रीस्था(स्थ) अ-
- 22 तिपन्न[क्रपः] [।] प्रतापपूर्व[:*] विन देवराय. प्रतापती भूसिमपालय-
- 23 [त्य: ।] [र*] प्रातापयन्ही परिजृंभसाणे शुष्कास्तुक्ष्का श्राप यस्य राज्ञः [।*] रि-

Second Plate , First Side

- 24 पुचितीय $[1^*]$ य निरस्तर्धर्याः 3 कातारवरुमीकद्यतात्मरचाः ॥ $[rac{1}{2} rac{1}{2} rac{1}{2}$ तस्य देमांबि-
- 25 काभर्त्तुः पुत्रः शतुप्रसर्दनः [।*] विद्यानिधिर्विश्रेषज्ञो वीरी विजयभूपितः [॥ १४*]
- 26 तस्य नारायणीदिव्या' प्रादुरासीद्यश्रीधन: । प्रीढप्रतापविभव: प्रता-
- 27 पाख्यो महीपति: ।[१५*] गुणेर्र(र)नेकै वनौतकेस्मिन् न्विराजसानसु-
- 28 क्षताप्तकीर्त्ति[: *i] निनाग्रजात् प्राप्तघनाद्रिराच्यः सार्थीक्षतार्थिवृ-
- 29 जपारिजात: ॥ [१६*] तस्य 'शिष्ट्लदेवीति भार्या सर्वेगुणात्रया ॥
- 30 लच्मीना(र्ना)र[1*]यणसे(स्ये)व स(श)[ची]व नमुचिह्निषः ॥ [१७*] तस्य! सि(शि)व: प्राद्रस्भ-
- 31 हणाट्यो नामा विक्याच पति प्रसिष्ठः [।*] राजाधिराजः चितिपा-
- 32 लमीकि[र्व्व]दान्यमूत्ति(त्ति): क्लगैकिषिध: ॥[१८*] निजप्रतापा[द]धि[ग]-
- 33 त्य राज्यं समस्तभाग्यै[:*] परिसेव्यमानः [।*] खड्गांका)यतः सर्वरिपृन्यि-
- 34 जित्य स मोदते वीरविनासभूमि: ॥ [१८4] चु(छु)रिकाभानिनी(त्रे)ति वि-
- 35 खातः प्रतिपं(प)चधीः । सृक्रायरगंडाक पररायभं(भ)यंकर: [।*]
- 36 इिंद्रायसुरवाण इत्यादि विष[दो] बत: ॥ [२०*] तुगसद्रानदीती-
- 37 रे । विक्पाचस्य संनिधी [।*] पिच्यं सिंचासनं प्राप्य पालयन्न(स)-वनीसिमां [॥ २१*] पु(पु)-
- 38 ख्युस्नोकाग्रगं(ग)खोसी विरूपाचचितीस(ख)रः । धर्मस्थानगतै[:]
- 39 सद्धि: श्रंयुती12 घरणीसुरै:18 ॥[२२*] श्राखिषाचननिर्णीतशकव-
- 40 प्रैक्रमागले । न[वाष्ट]गुणभूयुत्ते सर्वेजिद्दत्यरे भ्रासे [॥ २३*] सारी कार्त्तिक-

[।] Perhaps the correct reading is सर्वेथा or सर्वार्था, Ml 121 has बन्ध

² MI 121 has वृद्री , read मतापवङ्गी

³ Read कांतार°

[•] Read ईच्या°

⁵ Cancel w.

⁶ See note 3, p 4, above

⁷ Ml, 121 has सिष्टल्हेबी.

[ै] सची नस्चिविद्यिप is the reading in Ml. 121

[•] The variant found in M! 121 is HATHET:

¹⁰ Cancel the danda 11 [द्रव्य is the reading that occurs in MI 121

¹² संयुक्ती is another variant found in M1 121.

¹⁵ The Kannada text of M1, 121 has भ्रणीवरें;, but the romanised text reads co. rectly सुरें:

- 41 विख्याते सिते पच्चि विश्वपतः । उत्याना(न)द्वादसी(श्रो)पुणा(ख्य)काने चापि तृपी-
- 42 त्तमः [1] [२४*] राजाधिराजः स्तेजस्ती यो राजपरमेखरः [1] [वि]कृपाच-
- 43 घ(य) धर्मबुद्धा युत सुधी: ।[२५*] आनेयाय 'नगध्येने निद्रुरख्यसवासि-
- 44 ने। सां(सा)रंगार्यसुतायाय सर्वगास्त्रविदे तथा । [२६*] भाष्यभूषाक[रा]-
- 45 याथ सांख्यामोमांसवेदिने । 'सीवशास्त्रप्रवाणीय चतुप(ष्प)प्टिकळा(ला)-
- 46 नि(वि)दे ।[२७*] षडगसहितं वेदं वेदार्थं वेत्ति भूम्र. [।*] तस्प्रै हिजाय भू-
- 47 [पालो] इस्तिनावितिकतगं(गा) ।[२८*] मूडनाडिस्थित(तां) चैव इगरे[:*] प[स्व]-

Second Plate, Second Side

- 49 में स्थितं(तां) । यंमेगेनूर सोंस्न्येत्र । खारो भूमिं सहोपित[: ॥*] [२८*] प्रादात्तया च स(स)हि-
- 49 तं चेव सस्यफ्लप्रद ॥[२८६] भारद्वाजाय विदुषे । रिसंबरसु-
- 50 ताय च । विरूपाचार्यभिषजे 'र्क्याखा(खा)ध्या[यि]-
- 51 ने तथा ॥[२०*] खारिसप्तप्रमाणं च [त]टाके क्षणमंजिति[।*]
 करियकेरेण्टें-
- 52 ति विखाते खारित्रयमितां भुवं ।[३१*] चिटुकनाहाळु नाम्न्येष खारित्रयमिता
- 53 भू(मु)वं । मिळिला खारिसंख्यां(ख्या)च चयोदग्र मुविश्रुता ॥[३२*] च(त)चस्यं ग्रामसेकं त सो-
- 54 मलापुरनामकं [1*] असाकं भी विरूपाचमहीनाथ ददस्व नः" । [३३*] इ[ति]
- 55 विज्ञाप्य भूभर्त्तुविरूपा[च]मचीपते[: ।*] वि(वो)रणायै[:*] स्वयं लब्धा(वधा) ग्रामं चा[च]
- 56 महोस्व(ख)रात् ॥[२४*] मृ(स्र)ला विज्ञापनं तस्य विरूपाचमहोपति[:*]। [२५*] निधिनिचे-

¹ Delete the risarga

² Read wo

a Read सर्वज्ञास्त्रप्रवीषाय.

⁴ Caucal the danda

⁶ The ē of दे seems to have been erased in the original 2 Kither the word चुसाझ or ज should be cancelled, otherwise there would be redundancy

^{*} We should have expected बीरबार्धेण संबन्धी यामबाझ For the pleonestic use of the words स्ट्रीपते: and

- 57 पसयुत्तं जलपाषाणिमिश्रितं । श्रीच खागामिसंयुत्तं । सिद्धसा स्वास-
- 58 मन्वितं ।[३६* अष्टभीगैय संग्रुतं कुल्यारामममन्वितं [।*] समस्तविकसंगु-
- 59 क्षं सर्वमान्यं फलप्र[दं] । [३७*] तुंगभद्रानदीतीरे विरूपाचस्य सं(स) विधी[।*]
- 60 सिहरं(र) खोदक (क) दानधारापूर्व यद्याविधि [॥३८] विरूपाचपुरं चेति-
- 61 प्रतिनाम विधाय च ॥ भीतु दातुं चिजेभ्यध प्रादादा[चं द्र]तारक । [३८*]
- 62 सोपि दिजय संतुष्ट[.*] संयुत: परया सुंदा [।*] श्रवार्र(रो)दाशिषं राज्ञे
- 63 जीवी भविविति ॥[४०*] गोचं शाखा पितुनीम दिजानां च यथास्थितं [1*] जिल्लं-
- 64 ते वृत्तिसंख्यात्र पष्टिसंख्या ययाक्रमात् [॥ ४१*] श्रीवत्सो ^३रुगधीतस्र [हेम] ।
- 65 गार्यस्त: स्(स)धौ: [।*] मिसभडेति विख्यो(ख्या)तो हित्तमेकामिहासुति॥ [४२*] वासि-
- 66 ष्टो(ष्टो) रुगधोतय वत्नंभट्स[तः] सुधी[:*] । [दु]गीसहेति विख्याती हित्तमि वित्रामिका सिक्स्य-
- 67 ते ॥[४३*] हारीती ° क्गधोतस हपणार्थ[सु]तः सुधी[.] [।*] [सारंगार्थस वि]ख्यात[*] सार्थ[मेक]-
- 68 . .[स]: [॥ ४४*] चाचेयोष रगध्येत भायणा[य्ये]स्य [नदन]: [।*] भायिभहो हिजयेष्टो(ष्ठो) हित्त-
- 69 [इयमि] हासुते ॥[४५*]

Third Plate. 8

- 70 °तैस्तै[स](स्र)मन्वितसिन्हैं व्हि-
- 71 च प्रास्या(चा)दिषु क्रमात् [।*] सोमानोध्या(स्या)ग्रहारस्य लिख्यंते देष(श्र)भाषया [॥४६*]
- 72 वासिष्टी(ष्ठो) वं(ब)व्ह(ह्न)ची विद्वान्
- 73 ऐत्यार्यस्त: सुधी: [1*] वसभी रायसन्ता(स्वा)मि(मी) वृत्ति मिनामिनास्त्रिते ॥ [89*]

¹ Cancel the dands.

² w is a correction from w.

^{5.- 4} Read स्माधीतय

Read our Th

⁶ Read ऋगधीतय

⁷ Read भूराध्येता

⁸ At the top of this plate, a little below the right side of the ring-hole, is the letter ri which I am not able to explain.

[•] The line begins about the middle of the plate
10 Like वृद्धी in line 23 न्द्री is written with n preceding he The grammatically correct form would be rece

¹¹ The two syllables AMI are written over an erasure

- 74 लष्टा श्रीसुह्णाचार्यसूतुः भासमले[ख]कः [।*] वोरणः सगुणो धोमा[न्]
- १६ छित्तिमेकामिषाण्युते ॥[४८[‡]] श्राचेयी याजुषी घीमान्याधा(ध)वाराध्यनंद-
- 76 ण: [14] भासन: भंथकदिदान् दुग्गा(र्गा)भद्दोच हित्तभाक् । [४८*] दानपाल[नयो]-
- 77 र्फ्सचे दानाण्छे (च्छ्रे)योनुपालनं [।*] दानास्व(त्व)र्गमवाप्तोति पालनादच् (च्यु)तं
- 78 पद ॥ [४०*] खदत्तादि(दि)गुण पुं(पु)ण्य परदत्तानुपाननं [।*]परदत्ताप[हारी]-
- 79 ण खदत्तं निष्फलं भवेत् ॥[५१*] स्वदत्ता(त्तां) 'परदत्तां वा यो इर(रे)त वसुं-
- 80 धरा । षष्टिर्व[त्तस] इसाणि विष्टायां जायते क्रि(क)िम[:*] ॥ [५२*] एकीव भिय-
- 81 नी लोके सर्वेषामेव भूभुजां [।*] न भोच्या न ख(क)रग्राष्टा(श्चा) विप्रदत्ता [वसुं]-
- 82 घरा ॥ [५२*] सामान्योयं धर्मसेतुं न्रपाणां काली काली पाल[नीयी] भवित्र[:] [।*]
- 83 श्वांनि[ता]न् भाविनः पार्थिवेंद्रान् भूयो भूयो याचते राम[चद्रः] ॥[५४*] त्रो[॥*] 84 र्ऽ11-Vuāpāksha 5

TRANSLATION

(Lone 1) Obersance to Ganadhipati

- (V.1) Invocation to Siva [by the common verse namas=tunga, etc.].
- (V 2) May the merciful elephant-faced (god), in the course of whose water-sport the oceans become (mere) ponds, protect the worlds
- (V 3) Salutation to that boar, at the tip of whose stalk-like snout, the earth, comprising the seven islands, seemed (to possess the beauty of) a lovely lotus
- (V.4) There is the Lord of stars (i e Moon), the younger brother of her who resides in the lotus (i e Lakshmi), who shines in the region of the firmament with his (lustrous) ray and constantly illuminates the quarters, who is born of the milk-occan and is renowned as the depository of kalas (digits), himself being made of nectar rays and who has obtained the position of a jewel in the head of Sambhu, the consort of Bhavani (i e Pārvati)
- (V.5) In his family was born the king named Yadu, and this world was protected by Väsudeva who was born in that family
- (V 6) There was king Sangama of good conduct, wearing Sasimauli (Siva) as an ornamental jewel, on whose victory in battles, the crowds of enemy kings heavily burdened (with numbers) though vanduished leach the cardinal points in great haste, (but) whose (i.e., the 'King's) fame moves further on (pressing) through intervening spaces amidst lords of the (eight) directions

^{1&#}x27;Caticel the visargu-afterin

³ The rest of this line and the next line up to apply are written on an erasure

^{*} Rend ेन्द्रेंस

- (Vv 7 and 8) Then came king Bukka, the foremest of the kingly race, in the fire of whose valour the hostile rulers were consumed as moths. In this king of great fame, the goddess of prosperity of the Karnita (kingdom) resid with pleasure. And the goddess of the earth also for the first time realised the (significance of her) names Vasantharā and Sthirā on account of her qualities of hearing wealth and remaining permanent.
- (V 9.) Lake the moon of bright lustre rising from the Udaiya-Śaila of lofty peak, king Harihara of rising full glory took his birth from ling Bukka who wore a splendid crown and filled all the quarters with abundant wealth arquired by taxation as the moon with the exuberent lustre of his rays
- (V. 10) What could stand comparison with him the reflection of whose fame is protected by the deities of the quarter, by whom the (stern) Kah age has been turned into one better than the (golden) Krita age, by whom was caused the highway of the school of philosophy which considers Duty (Karmi) as god (Brahmi) fice of all obstacles, and by whom the earth, having for (its) girdle the oceans, was ruled with justice
- (V 11.) She, who was called Měládčví because she was a combination of Šií (i e Lakshmi) and Pārvati and was in every way possessed of auspicious marks, was the consort of this king
- (Vv 12 and 13) India, desirous of removing his stains, obtained on earth the form of this (king) and in the name of Dövmäya, with Pritapa prefixed to it, ruled the world with his prowess. In the glowing fire of this king's valour, the Turushkas were scorched up and (other) hostile monarchs, with (their) bravery lost, sought self-protection in forests and ant-hills
- (V. 14) The son of this husband of Demambika was Vijayabhūpati, the destroyer of his enemies, the store-house of learning, of supreme knowledge and a hero
- (Vv 15 and 16) To him, through Nārāyanīdēvī, was born the king called Pratāpa, renowned as Praudhapratīpa, who had fame for wealth. He shone on this earth with many virtues, obtained fame by meritorious deeds, got the (kingdom) of Ghanādir-rājya from his (uterine) elder brother and was a Pārijīta in granting their desired objects to crowds of mendicants.
- (V 17) His wife was Śiddaladčvi, the resort of all good qualities, like Lakshmi to Nārāyana and Śachi to the enemy of Namuchi (1 e India)
- (V 18) Šiva (himself) was born of her under the well-known name of Viiūpāksha, full of good qualities, a rūjādhirāja, the head-ornament of kings, a munificent person and the one ocean of mercy
- (V. 19) Acquiring the kingdom through his own prowess, attended with all kinds of prosperity, and conquering all his chemies with the point of his sword, he, as the play-ground of heroism, rejoices
- (V 20) He who is renowned as Chhurikā-Bhālanētia (i e Śiva in wielding the sword) and ripe of wisdom holds the high (sounding) titles, such as Mūiurāyaiaganda, Paiarāyabhayankara and Hindurāyasui atrāna
- (Vv 21 to 29) On the bank of the Tungabhadiā iver (and) in the presence of (the god) Virāpāksha, having obtained his ancestral thione, this king Viiāpāksha, the foremost (among those) possessing noble viitnes, rules the earth, suiiounded by pious Biāhmanas assembled in his court. In the course of the Śāka years determined by the Śākivāhma-[Era], in the excellent year Sarvajit (corresponding to the year) expressed by nine, eight, gunas (three) and bhū (one) (is 1389), on the auspicious occasion of Utthānadvādašī, in the bright half of the month of Kārttika, he, the best of kings, the wise Virūpāksha, a iājādhirāja (and) rājaparamēšvesa, of great valour, with the intention of making chairty, made a grant to a Brāhmaṇa resident of Nittura who was the son of Sārangārya, who belonged to the Ātrōya-[gōtra], and was a student of the Rik-[Sākhā], who was well veised in all the Sāstras, who knew the sixty-four arts

as well as the Sānkhya and the Mīmāmsā (systems of philosophy), who was learned in the Vēdas and the six anjas (branches) with their meaning, and who was the author of the Bhāshya-Bhūshā, of (one) hhār of land situated to the west of the Hagarī (river), within the boundary of (the village of) Yammegēnūru in Mūda-nāda and in (the sub-division of) Hastināvatī-valita

(Vv 30 to 32) Again he gave to the scholar and physician Virūpākshārya, son of Rasēśvara of the Bhāradvāja-[gōtra] and a student of the Rik-Sākhā, 7 khār of valuable land yielding
grain and fruit under the tank called Krishna, 3 khār of land under (the tank) known as Kariyakēre and of 3 khār of land in (the village) called Chitukanāhālu—thus in all, the number of 13
khāris

(Vv 33 to 39) Having petitioned thus to king Viiūpāksha "Oh! King Virūpāksha! grant me the village situated there named Somalāpura", Vīranārya obtained from the king the (said) village. On hearing the request, king Viiūpāksha made, in the presence of the god Viiūpāksha on the bank of the river Tungabhadiā, a sarvamānya gift with gold and water, accompanied by libation of water as laid down by rule, of the fertile village (Somalāpuram) with all its royal revenue, together with canals and gardens, with its name changed into Virūpākshapuram,—for being enjoyed as long as the Moon and the Sun endure, or for being given away to Biāhmanas,—together with the eight kinds of enjoyment, is (the right to own) the nidhi, nilshāpa, jala, pāshāna, alshinā, āgāmi, siddha, and sādhya

(V 40) The Brahman too, pleased and overpowered with joy, blessed the king with long life

(V 41) (Here) will be written, in order, the $g\bar{o}tra$, $s\bar{a}kh\bar{a}$ and the father's name and the names of the Brahmans The number of vrittis (who received shares in the village) is sixty

(Vv 42 to 45 contain the names of four of these	donees '	١
---	----------	---

Ve-sc	Name of the donce	Father's name	Götra	Śīkhā	Number of trities owned	
42	Malli-Blitta .	Hēmanārya .	Śrīvatsa	Rık	1	
43	Dargā-Bhatta	Vallam Bhatta	Väsishtha	Do	1	
41	Sārangāry a	Hampanārya	Hārīta .	Do	11	
45	Bhīyı-Bhattı	Bhāyanārya	Ātrēja .	Do .	2	

⁽V 46) The boundaries of this Biahman village (agrahāra) with their respective marks are written (below) in the language of the country, in the four directions commencing with the east, in order

(V 18) The intelligent smith Virana of virtuous qualities, (who was) the engraver of this dicument and the son of the prosperous Muddanāchārya, holds one vritti (in this village)

(V 49) The learned and intelligent Durgā-Bhatta of the Ātrēya-[gōtra] and the Yajus-[Sā'kī], the composer of this document and the son of Mādhavārādhya, owns one vritti (in this

(Vi 50 to 5\(\delta\) [Tive of the usual imprecatory verses] (Line \(\delta\) \(\hat{Sr\tilde{i}\)-Vir\(\overline{v}\)\(\overline{a}\)

⁽V 47) The wise and learned Vallabha, son of Aitayārya, and the chief of the Secretaries ($\Re \bar{a}yasa$) belonging to the $V\bar{a}sishtha-[g\bar{c}tra]$ and the Bahvricha-[$S\bar{a}kh\bar{a}$], holds one vriti (in this village)

[·]The word ৰান্ত has pe haps to be corrected int) ব্ৰি

No. 15.—THE BRAHMA-SIDDHĀNTA OF BRAHMAGUPTA, AD. 628

MEAN STRTEM.

Br Robert Sewell (I C S., Retired).

(Continued from Vol XVII, p. 187.)

321 The Tables published in my last article (above, Vol. XVII) enabled the dates of ancient Indian inscriptions and records to be verified according to the requirements of the Brahma-Siddhānta with, as basis of calculation, the "true" or apparent motions of sun and moon. This mode of reckoning appears to have been introduced in the 11th century AD But the Brahma-Siddhānta was composed in AD 628 and for at least four centuries after its appearance details for the Calendar were almost certainly based on mean planetary motions, while it is believed that this mean system continued to guide the preparation of pańchāngas (almanacs) till a much later date—perhaps for several centuries in some parts of the country

For the correct verification, therefore, of early dates it is necessary for historians to be provided with a set of Tables based on mean planetary motions and the postulates of the Brahma-Siddhānta in addition to those based on mean motions and the postulates of the Ārya-Siddhānta The latter were provided in a previous article in this volume. The former are presented herewith. They cover a period of 800 years, from KY 3700 to 4500, or from AD 599 to 1400

The system of work is the same as in all my previous Tables, that is to say, it is the system of Largeteau as adopted by Professor H Jacobi in the Indian Antiquary, Vol VIII, and in the Epigraphia Indica, Vol. XI Full examples shewing the method of work, which is very simple, are given in my former articles, others, specially concerning the system of mean reckoning on Brahma-Siddhānta principles, are given below

In case of doubt as to which of the Tables already published should be used in the present case attention is directed to the accompanying § 329

322 In examining the dates of records in earlier years it is necessary to remember that the modes of reckoning adopted were not always the same as those used in mole recent years. As to eras, reference to articles 6-12 of my former work, *Indian Chronography*, is recommended For other matters the late Dr J F Fleet's remarks in the *Journal of the Royal Assatic Society* for 1912, pp 704-5, will be found very valuable.

Especially let it be borne in mind that the lunar month reckoning in early years was probably carried out on the pūrnimānta system. According to the late Professor Kielhorn the earliest known date certainly in amānta reckoning belonged to the year AD 794. It is contained in the Paithān plates of the Rāshṭrakūta king Gōvinda III (Epig Ind., III, 105, Ind Ant, XVII, p 142, No 9). As regards these two systems, the amānta and pūrnimānta names of lunar months, see Indian Calendar, §§ 13, 45 (with Table on p. 26), 47–51 and the late Sankara Balkrishna Dikshit's footnote on p 31, also Indian Chronography, §§ 75, 76, p. 31.

Elements of the Brahma-Siddhantu mean reckoning.

323. The principal elements are fully stated in my former article on this authority (above, Vol. XVII, § 313) For calculation on the mean system the following notes are necessary.

(1) The length of the mean sidereal solar year is 365d 6h 12m 9s, a fixture afterwards adopted by Bhaskaracharya in his Siddhanta-Siromani, AD 1150.

- (n) The advance of a (distance of mean moon from mean sun)—which finally fixes the index of the tithi (\frac{1}{30}\text{th} of a mean lunation) in measurement by 10,000ths of circle—in every civil day of 24 hours and in hours, minutes and seconds, has already been given for the Siddhānta-Širōmani in Tables LIV, A and B (above, Vol XV) These Tables are applicable to the Brahma-Siddhānta
- (iii) For the sun's mean motion per duy, hour, minute, etc., see Tables XIIII and XLIV (above Vol XIV)
 - (iv) The advance of a in one mean solar month is, in 10,000ths of circle, 307 349156595
- (v) Each solar month consists of 30d 10h 31m () 75 Table XCI below shows the interval of days, hours, etc., between the moment of mean Mösha-sankränti, when the mean sun is at celestial long 0° (Table XC, cols 13-17), and the moment of each subsequent sankränti when the mean sun enters each of the twelve signs, and so enables the day and time when each mean solar month begins to be ascentained. The same Table gives the advance of a from its value at the moment of mean Mésha-sankränti to the same at each subsequent sankränti
- (vi) The interval between the moments of true and mean Mcha-samkrānti, ie between the moments of the astronomical beginning respectively of the true and mean solar year, which interval we call the \$\overline{\sigma} \delta \de

TABLE B

(abore, p 126)

Value of sodhya by the Brahma-Siddhānta

Kaliyuga	A D.	Sodula at beginning of centuries.								
		D	11	M	s	Days and decimals				
3700	599-600	2	4	8	59 8128	2 1729145				
3800	699-700	2	4.	9	2 0160	2 1729400				
3900	799-800	2	4	9	4 2192	2 1729655				
4000	899-900	2	4	9	6 4224	2 1729910				
4100	999-1000	2	4	9	8 6256	2 1730165				
4200	1099-1100	2	4	9	10 8288	2 1730420				
43 00	1199-1200	2	4	9	13 0320	2 1730675				
4400	1299-1300	2	4	9	15 2352	2 1730930				
4500	1399-1400	2	4	9	17 4384	2 1731185				

The moment of mean Mesha-sumkrants, or the beginning of the mean rolar year

324 The general Table which follows (Table XC, cols 13-17) states the moment of beginning of each mean solar year according to the Brahma-Siddhānta. The first entry is for the expired year 3700 of the Kaliyuga (AD 599-600), in which year the astronomical beginning is fixed as at 5^h 15^m after mean surrise on Saturday, 21 March, AD 599. It is incumbent on me to prove the correctness of this fixture. Subsequent entries are based on it by the addition to it year by year of 365^d 6^h 12^m 9^s. Proof may be offered in three ways—(A) by comparison with the date and time already found for the beginning of the true solar year KY. 3700, utilizing Dr. Schram's determination of the interval between the two occurrences, (B) by comparison with the date and time fixed for the beginning of the same mean solar year according to the First Arya-Siddhānta, allowing for the time difference between the two authorities caused by their different estimate as to the length of the mean solar year, viz. 21^s, (C) by direct computation from the moment in K. Y. 0 of mean Mēsha-samkrānti, 3,700 years earlier, which, according to the Brahma-Siddhānta (§ 313, v, above), was exactly at mean surrise, or 0^h 0^m 0^s Lankā time, on Friday, 18 Febr (B.C. 3102)

$oldsymbol{A}$			
_	ħ	m	₽,
Moment of true Mēsha-samhrānti in K. 3			
Y 3700 (AD 599) (Table LXXXII, \((5) \) Thur, 19 Mar	1	6	0 1872
Vol XVII, above)			
$S\bar{o}dhya$ as above (§ 323, Table) . +(2) 2	4	8	59 8128
Moment of mean Mosha-samkranti . (0) Sat, 21 Mar	5	15	0
173			
В		_	
[See Indian Calendar, Table I, cols 13-17, for AD 599-	600]	
	h	m	8.
_			-1
True Mësha-samkranti by Arya-			
True Mēsha-samkrānti by Ārya- Sidāhānta		17	
· · · · · · · · · · · · · · · · · · ·	28		
Siddhānta .	28		30
Siddhānta .	23		30
Siddhānta	23 r.	3 32	30 2 30
Siddhānta	23 r.	3 32 2 50	30 2 30
Sıddhānta	23 r. →2	2 50 1 3	30 2 30 0 0 5 0
Siddhānta	23 r. →2	3 32 2 50	30 2 30 0 0 5 0

The epoch of the Kaliyuga was 0^h 0^m 0^s Lankā time, or exactly at mean sunrise on Friday. The length of the mean solar year being 365^d 6^h 12^m 9^s, the beginning of the next mean solar year took place 6^h 12^m 9^s after mean sunrise, and after the expiration of a century from the epoch the mean solar year began at 20^h 15^m 0^s after mean sunrise, so that after 37 centuries had passed the mean solar year K Y 3700 began at 5^h 15^m 0^s after mean sunrise.

When this latter calculation is carried out century by century, the figures shew that centuries 6, 12, 19, 25 and 32, five in all, were defective centuries consisting each of 36,525 days, the remainder being common centuries of 36,526 days. Since 36,526 divided by 7 leaves no

¹ See Tatle, § 273, in Article on the Siddhanta-Śiromani (Vol XV above), which is equally applicable to the Brahma-Siddhanta, or refer to Indian Chronography, p 61 The time-difference in 8 000 years is 17^h 80^m, in 700 years 4^h 5^m, total 21^h 35^m. 2 P 2

remainder and 36,525 divided by 7 leaves remainder 6, the results shew that whereas century 0 began on a Friday, century 37 began on a Saturday

Table XC therefore, as regards the moment of mean Mesha-samkrant: in KY 3700

expired, AD 599-600, is proved to be correct

The beginning of the mean luni-solar year, i.e. the civil day on which the tith Chaitra sukla 1 expired, and the value of a (mean tithi-index) at mean sunrise of that day. Amanta system

325 In § 317 of my article on the Brahma-Siddhānta as calculated by the true motions of the sun and moon (above, Vol XVII) it will be seen that the value of a at mean sunrise of Sunday, 22 March, AD 599 (KY 3700) was proved to be, in measurement by 10,000ths of a circle, 6567 108945284. The mean solar century, however, began on the previous day, Saturday, 21 March Deducting one day's value of a, viz 338 631985412, from the above, we find that at mean sunrise of that Saturday the value of a, or the mean moon's distance from mean sun, was 6228 476959872. This was its value at the beginning of the 37th century KY. Hence the first entry in Table XCII below which gives the values at mean sunrise on the day on which each century began. The remaining figures in that Table were obtained by the addition to this value of the increase of a in a century. [See § 316 of the same article. The increase of a in a century of 36,525 days is 997 678896964, and in a common century of 36,526 days is 0.416684507.] Centuries 38 and 44 were defective centuries, the rest were common ones. For the beginnings of the odd years of centuries. Table LXXXVII was used, the value of a there given being added to that for the century

Thus was determined the value of a at mean sunrise of the day on which each mean solar year begins (see Example 1 below) From this is found the value of a at mean sunrise of the day on which the luni-solar year begins

which expired the first tithi of the bright half (sukla) of the amānta lunar month Chaitra, ie the tithi which begins at the moment of the first new moon after the Mina-sankrānti, or at the moment of the new moon when that amānta lunar month begins within the limits of which the Mēsha-sankrānti occurs. Having already established the value of a on the day in any year on which mean Mēsha-sankrānti occurred, we have to subtract from that value the increase of a in whole days between the two dates, the day on which the luni-solar year began being the earlier. The first 30 days' entries in Table LIVA (above, Vol. XV) enable this to be done. We select in that Table the a in col 3 the value of which is next lower than the a of mean Mēsha-sankrānti, and the Table then shews in col 1 the number of intervening days, and therefrom the European day and month, and, by subtraction, also (col 2), the week-day. Deducting the selected a from the a of mean Mēsha-sankrānti, we have the a of mean sunrise of the day, Chaitra sukla 1, on which the mean luni-solar year begins

Thus,—mean Mēsha-samkrānti of the year KY 3700, AD 599-600, was shewn in § 325 to have occurred on (0) Saturday, 21 March A.D 599, at mean sunrise on which day the mean moon's tithi-index a was 6228 4770. In Table LIVA, amongst the values of a in the first 30 days, it is seen that the next lower value is 6095 3757 6228 4770—6095 3757=133 10131. Col. 1 shews that the interval of days was 18, and col. 2 shews the week-day 4. Mean Mēsha-samkrānti occurred on (0) Saturday 0 (or 7)—4=3 Tuesday. It is therefore found that the day Chaitra fukla 1, the first civil day of the mean lumi-solar year, was (3) Tuesday, 3 March AD 599, and that the value of a at mean sunrise on that day was 133 1013, shewing the currency of the tithi fukla 1. This is the entry in Table XC below.

It comes to the same thing if the a of Table XCIII below is added to the a of mean Mesha-samkrānts, the Table being prepared for that purpose The a of mean Mesha-

All values of a below 333 3 prove the toths to have been the first of the amania lunar month, see, the first siths of the first (sukla) fortught

samkrāni: was 6228 4770. We select such a value of a in col 3 of that Table as, added to the former, makes a value between 0 and 333 3, the limits of the tithi śukla 1, and note the interval of days, and the week-day resulting by addition of the given week-day (col 2) to the week-day of mean Mēsha-samkrāni: Here the selected value of a is 3904 6243, since 6228 4770+3904 6243=133 1013 The interval of days is 18 (col 1) The week-day corresponding to the day Chaitra śukla 1 is (0+3=) 3 The result is the same as obtained by the former process

All the entries in the general Table XC, cols 19-23, can be proved in this way

To find the exact phase of the mean moon, 1e the mean tothe-index a, on any day of any year, or at any particular moment of any day, 1t 1s only necessary to add to the value of a given in col. 23 of Table XC for the first day of the luni-solar year the amount of increase of a during the intervening whole days, hours, etc., given in Tables LIVA and B (above, Vol XV)

The purnimanta system of lunar months

327 The amānta lunar month begins at the moment of new moon, the pūrnimānta month at the moment of full moon a fortuight earlier, so that the fortuight (suhla) between new moon and full moon bears the same month-name by both systems, while the fortuight (hrishna) between full moon and new moon bears, in the pūrnimānta system, the name of the lunar month next after that which it bears in the amānta system. The suhla fortuight of the first lunar month, for instance, belongs to Chaitra by both systems. The following krishna fortuight, however, belongs to Chaitra by the amānta system, but to Vaisākha by the pūrnimānta system.

This should always be borne in mind when examining dates of inscriptions, especially in earlier years. For references to already published explanations see § 322 above, and for a Table of corresponding fortnights and lunar months see Indian Calendar, Table II, Part I

The mean moon's nakshatra

328 The note on this subject already given (§ 308) in dealing with calculation by the First Arya-Siddhānta mean system (above, Vol. XVI) applies equally to the Brahma-Siddhānta mean system. It is unnecessary to repeat it

Tables LXXX and LXXXI, fixing the sun's mean longitude for every day of the mean solar year according to the First Arya-Siddhānta, may safely be used for general calculation by the Brahma-Siddhānta, since the difference between the two authorities in their estimates of the length of the year only amounts to 21 seconds ¹ But in any exceptionally close case the exact value, at mean sunrise of any day in the year, of s, or the sun's mean longitude, can be found by multiplying the sun's mean motion in one day (Table XLIII, Vol XIV above), by the number of days' interval between the day on which mean Mēsha-samkrānti occurred and the given day. The sun's mean motion in one day by the Brahma-Siddhānta is 59^m 8s 172655, or in 10,000ths of circle 27 377875426

The Rule for work is as follows (1) Find, as above, value of "a" at mean surrise of given day (11) Note number of whole days intervening between the day of mean Mēsha-samkrānti (Table XC vetow, col 18, figure in brackets) and the given day Turn to Table LXXX and note the increase of sun's mean long, "s", during that interval Deduct from this, by Table LXXXI, the increase of long during the hours and minutes stated in col 17 of Table XC. The result is the sun's mean long, s, at mean sunrise of given day (11) Add s to a This note the required index of the mean nakshatra, or the mean moon's place in the heavens at that moment Table LXVIII above, or Table VIII, Indian Calendar, will shew in which nakshatra the mean moon stood at the time

In measurement by 10,000ths of circle the total difference in 365 days is 0 00665, by which amount the Brahma-Sidahānta is the greater

The 19-year intercalation cycle

329 [See Indian Calendar, § 50, p 29, and notes in previous articles above on the working of the cycle by different systems] The sequence in the present case works perfectly regularly except in four instances. In every case except these, after four successive intercalations of the same lunar month at intervals of 19 years each, the intercalated month gives way to the month next preceding it. The exceptions are—a run of five mean intercalary Bhādrapadas between A D 746 and 822, five Āśvinas between 952 and 1009, five Kārttikas between 1120 and 1196, and five Paushas between 1231 and 1307

Working Tables

330 For general guidance the following Tables, as given for work by the Arya-Siddhanta (above, Vol XVI), should be used, or the similar Tables published in the Indian Calendar

Table LXII, or Ind Cal, Table II, Parts I and II, for names of months and nalshatras
Table LXIIIA, or Ind Cal, Table III, Part I, for collective duration of mean lunar
months

Table LXVIII, or Ind Cal, Table VIII, for indices of tithis, karanas, nakshatras and yōgas.

Table LXIX, or Ind Cal, Table IX, for the serial number of days of the year and their

Table LXX, or Ind Cal, Table X, for conversion of the indices of tithis, nalshatras and yogas into time

Table LXXI, the European Calendar for 23 centuries [Table XIII, Indian Calendar, may also be used, but the former is easier]

Table XCI below gives the collective duration of mean solar months, measured from the moment of mean Mēsha-samkrānti, the astronomical beginning of the mean solar year, also the increase of a, the mean tithi-index, during the interval

Table XCII shews the value of a at the beginning of each mean solar century of the Kalıyuga, that is to say, its value at mean sunrise of the day on which each such solar century began

For odd years of such centuries Table LXXXVII (above, Vol XVII) is to be used in conjunction with Table XCII, addition of the two given values of a yielding the value of a at mean sunrise of the day on which each mean year of the Kaliyuga solar century began

For increase of a in subsequent days, hours, etc., in any KY year, or any moment of any day Tables LIVA and B (above, Vol. XV) are to be used

The use of Table XCII1 is explained in § 326 above

names and numbers in European reckoning

Table XCIV-A to F enables the units and decimals of units of results obtained from our system of reckoning in measurement by 10,000ths of a circle, to be converted readily into time, if required The same can be converted into space-measurement in degrees, etc., by Table XLVB (above, Vol XIV)

EXAMPLES

[Λ^*B —Work may always be done in whole numbers, resorting to decimals only in close cases]

Example 1 To find the mean tethe-index, or phase of moon, at mean sunrise of the day on which mean Mesha-samkranti occurred in any year

This is a necessary operation for finding the tethr-index a at the moment of mean Mesha-samkrants, which is obtained by addition of the a of subsequent hours, minutes, etc., to the a

of mean sunrise [The interculation of lunar months is decided by the value of a at the moment of mean Mösha-samkränti] Two cases are considered, A and B

A Take the year Kaliyuga 3851 expired. This was the Saka year 672 expired. It began (Table XC, cols 13-17) astronomically at 5^h 49^m 39^s after mean summer on Sunday, 22 March AD 750. We want to know the moon's phase, as shewn by the tithi-index a, at mean summer of that day ["w-d"=week-day]

	u d	a
(Table XCII) At beginning of KY Century 38, mean sunra	se (0)	5100 3761
(Table LXXXVII) At beginning of K Y year 51, do	(1)	8036 6243
At mean summer on the Sunday in question	(1)	3137 0004

B The year KY 3849, Saka 670 both expired This began (Table XC) at 17^h 25^m 21^s after mean sumise on Thursday, 21 March AD 748. The first result shows the a for mean sumise on Friday, 22 March, and the a for one day has to be deducted. This is due to the fact that Table LXXXVII has to serve for all KY centuries, common or defective. The correction required is never more than that for one day

(Table XCII) At beginning of KY (Table LXXXVII) At beginning of	Centi f K Y	yeni yeni	3, mea 49,	n sun do	1750	(0) (6)	5100 3761 835 2749
At mean sunrise on Finday, 22 Mar Deduct one day's value of a	•		•				5935 6510 338 6320
At mean sunrise on Thuisday, 21 Ma	r			•		(5)	5597 0190

Example 2 To find the civil day corresponding to Chartra sukla 1, or the first civil day of the luni-solar year, and the value of a (place of mean moon) at mean surrise thereon

The civil day corresponding to mean Chaitra sukla 1 is that on which the mean tithi "sukla 1" expired The tithi-index (a=) 3333 marks the last instant of the first sukla tithi, so that we have to find a day on which at mean surrise the tithi-index a was between 0 and 3333. The amanta lunar month called "Chaitra" begins with the first new moon after the Mina-samkrānti, and the civil day called "Chaitra sukla 1" is necessarily earlier than the day on which mean Mēsha-samkrānti occurred. We have to find the number of days' interval between those two days. There are two ways of ascertaining these points, one by asing Table XCIII and adding its figures.

(1) Take the year in Example 1, A, above The value of a at mean surrise of Sunday, 22 March A D 750, was found to be 3137 0004 We turn to Table XCIII and select in col 3 such a value of a as, added to 3137 0004, will result in a total value of a between 0 and 333 3 This is found to be 6952 3121, the sum of the two (always disregarding quantities over 10,000) being 89 3125. The interval of whole days from mean Mēsha-samkrānti day was 9 (col 1) Adding the number of the week-day (col 2), viz 5, to the week-day of mean Mēsha-samkrānti occurred on Sunday, 22 March, and, therefore, it has been determined that the day Chartra śulla 1, the first day of the lumi-solar year, was Friday, 13 March A D 750, on which day, a being 89 3125, Chartra śulla 1 was the current tithi at mean sunrise

Similarly in Example 1, B At mean sunrise of (5) Thursday, 21 March AD 718, a was 5597 0190 Add (Table XOIII, col 3) 4581 8882 Result 178 9072. The interval of days was

(col 1) 16 The week-day number was 5 The week-day of 21 March was 5 (Thursday) Hence the week-day 16 days earlier was 5+5=3 Tuesday So the beginning of the mean lunisolar year was on Tuesday, 5 March A D 748, on which date at mean sunrise the mean 11th "suhla 1" was current, the value of a at that moment being 178 9072.

The entries in Table XC against these years correspond to these results

(11) The same results are obtained by using Table LIVA (above, Vol. XV) and deducting the figures for the interval of whole days between the two occurrences. We note that value of a in the first 30 days of that Table which is next lower than the value of a already found for the day of mean Mēsha-samkrānti, and deduct the former from the latter. The number of intervening days (col. 1) and the number of week-days (col. 2) stand against the selected entry. This week-day number is deducted, of course, from the week-day of mean Mēsha-samkrānti. Thus—

A	For KY 3851, AD 750	w-d	a.
	(Example 1, A) For mean sunrise on Sunday, 22 March AD 750.	(1)	3137.0001
	(Table LIVA) Next lower value of a, and week-day	- (2)	-3017 6879
	At mean summer of the day Chartra sukla 1	(6)	89 3125

The interval of days (col 1) was nine 6=Friday Hence the day corresponding to Chaitra sukla 1 was Friday, 13 March, and at mean sunrise the mean tithi Chaitra sukla 1 was current, the value of a being 89 3125

B For KY 3849, AD 748

(Example 1, B) At mean sunrise on Thursday, 21 March, (5) 5597 0190 A D 748 (Table LIVA) Next lower value of a, and week-day .—(2) —5418 1118

At mean sunrise of the day Chaitra sukla 1 . . . (3) 178 9072

The interval of days was 16 3=Tuesday Hence the day corresponding to Chartra sulla 1 was Tuesday, 5 March A D 748, and at mean sunrise the value of a was 178 9072

These results are the same as those found by the former process. The examples enable any worker to prove the correctness of all my entries in cols 19-23 of the general Table XC below

Example 3 To find if a lunar month was or was not intercalated in the given year

It will be enough, for this problem, to refer to Example 3 (above, Vol XVI) of my article on the Arya-Siddhānta—mean system The work here is precisely similar, but for the values of a for hours and minutes Table LIVB (Vol XV above) should be used, and Table XCI for the advance of a during the mean solar months, etc

Example 4 To find the mean tithi-index a, shewing phase of moon, at mean sunrise of any day in the year, or at any moment of any day.

Table XC (cols 19-23) gives the civil day corresponding to mean Chaitra sukla 1 (the initial day of the mean lum-solar year), its serial number (in brackets) from January 1st of the equivalent AD year, and the mean tithi-index a at mean surrise Calculate by Table III, day to the given day, and, if necessary, the excess of hours, minutes, etc., to the given moment on that day. Add the increment of a for the interval of whole days from Table LIVA and number of days from Table LIVB to the a, as above, of the initial day, as also the number of days' interval and the corresponding week-day.

Eg Required the tithi-index at mean sunrise of the day called "Ashādha tukla 4" in Saka 547 expired, or AD 625-26, and the corresponding AD day and week-day

In this year there was no intercalated month. The interval from the day "Chaitra sukla 1" to the day "Āshādha sukla 4" is approximately (Table LXIII-A above, p 335) 93 days. We try this—

Table XC Chartra sukla 1, mean sunrise Table LIVA for 93 days	•	•	d (74) +(93)	w -d (6) (2)	a 184·6508 1492·7746
This value of "a" (Table LXVIII) shews			(167)	(1)	1677 4252
that the 6th sukla tithi was current a sunrise : Deduct for 2 days .		ean •	– (2)	~ (2)	677 2640
At mean sunrise on Åshādha sukla 4	•	•	(165)	(6)	1000-1612

Table LXVIII or VIII Indian Calendar, shews the currency of the 4th sukla tithi, at that mean sunrise, since its first point is when a=1,000 Day 165 was (Table IX, Indian Calendar, or LXIX, above) 14th June AD 625 6=Friday We learn, however, that the 4th mean tithi had begun only about $\frac{1}{4}$ of a minute before the moment of mean sunrise, so that if the basis of calculation had been the moment of true sunrise (a little earlier than mean sunrise) the corresponding day might have been Thursday, 13 June

Example 5 To find the nakshatra, or place in the heavens of the mean moon, at mean sunrise of any day or of any later moment in the day

Take the case in the last example—It is required to find the value of "n". the nakshatra-index, at mean sunrise of the day called, in the mean system, "Ashāḍha śukla 4" in the given year, AD 625

The mean tethe-index, "a", at that mean sunrise was found to be 1000 1612 Since s+a=n (§ 327 above), we have to ascertain the value of "s", the sun's mean longitude at that moment

The day, 14 June, was the 165th day after Jan. 1 in that year. Mean Mesha-samkranti had taken place on (Table XC, cols. 13-17) the 79th day at 22^h 30^m 54^s after mean sunrise. The day 14 June was (165-79) 86 days later. We proceed as follows—

Table LXXX, p 444	Interv	al of	86 day	8	•	•		2354 4957
Less (Table LXXXI)		•			•	•	25.0964	
2000 (20000 = 1	30^{m}					•	0 5704	
	54		•	•		•	0 0171	
							25 6839	25 6830
At mean sunrise on the	dav Āsh	ādha	śukla 4	sun'	s mea	n long	ζ, "ε" =	2328 8118
Add "a" as already fou	nd for t	hat n	noment		•	•	• •	1000 1612
								3328 9730
At mean sunrise on that	day "n	"=	•	•	•	•		0040 0100

This last is the required nakshatra-index Reference to Table VIII, Indian Calendar, or Table LXVIII (above Vol. XVI) shows that the moon was then in the nakshatra Aslesha by the

equal-space system of division of the scliptic, which ended when "n" =33333, but that by the system of Garga or the Brahma-Siddhānta (our present authority) she was in Maghā, of which the ending points are respectively 35185 and 34771 Converted into degrees (Table VIII-B. Indian Calendar, or Table XLV-B, above) the moon at that mean summer stood at about 119°51'

For the value of "n" at any later hour of the given day the index-value for the time since mean sunrise must be added (Table LXXXI) to the "n" of mean sunrise. At about 3 hours 50 min. after mean sunrise, for instance, the mean moon entered Maghā by the equal-space system, for the beginning point of that nakshatra is 3333 3. The increase of "n" in 3 hours 50 min. is 4 3728, and 3328 9730+4 3728=3333 3458

Example 6 To find the yoga, "y", at the same moment as in Example 5

The formula for finding the $y\bar{v}ga$ -index is either s+n="y", the $y\bar{v}ga$ -index, or, in cases where it is not necessary to calculate n (the nalshaira), 2"s"+a="y" Here, at mean summer on 14 June A D 625, we have found "s"=2328 8118 and "n"=3328 9730 The $y\bar{v}ga$ -index, "y", therefore, =5657 7848, and reference to Table VIII, Indian Calcular, col=12-13, or Table LXVIII (above, Vol XVI, cols 6, 8, 9, 10), shews that the mean moon was at that moment in the $y\bar{v}ga$ Siddhi Again 2s=4657 6236, and thus +"a," which was found to be 1000 1612=5657 7848, the same as before.

TABLE XC

RIMARKS

KY 3736 expired, AD 635-36 A very close case in the matter of intercalation of lunar month. Mean new moon occurred about 2^m after the moment of the Karka-samkrānti (mean sun at long 90°), and, therefore, at that moment the mean moon was waning, while she was waxing at the next, Simha-samkrānti (mean sun at 120°). Accordingly the intercalated month was Srāvana

KY. 3923 expired, AD 822-23 According to the 19-year sequence of intercalations the same month is generally intercalated four times running, i.e. at intervals of 19 years each Here, however, is an instance of a fifth intercalation of the same month [See § 329 of text above]

KY 4110 expired, AD 1009-10 A similar case Āśvina intercalated for the fifth time

KY 4297 expired, AD 1196-97 Another Karttika intercalated for the fifth time

KY 4408 expired, AD 1307-08 Another Pausha intercalated for the fifth time. This was a very close case The moment of mean new moon was about 1 minute after the mean sun reached the Dhanus-samkrānti (mean sun at long 240°), but she was actually waning at the moment of the samkrānti and was waxing at the next, Makara, samkrānti Consequently the lunar month Pausha was intercalated

TABLE

MICS STRIM TABLE,

Numbers of columns conform

(Cols 1 to 4) - The years herein stated are the current years corresponding

(Cols 6 and 7) - Samvaisara-names of mean solar years in italies shew cases

			R	RFNT 1EA	CONCUR			=		===
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		ndra .	54 Re	603-04		lo	1	661	526	705
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. 12 Phälguna	• •	Prabhava .		610 11		17	1	1	533	3712
•••		7ıbha¥a		611 12		18	89	_ {	534	3713
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1 "	•	Prajāpali . Angīras	l .	615 16	1	22	378	1	53	8717
5 Śrāvaņa		Angiras Srīmukha .	1	*616-17		- - 23	674	- 1	1	8718
	· ·	Bhāva .	1	617-18	1	24	675	- 1	ì	871
	•	Yuvan	İ	618-19		25	676	541	5	872

XC.

Branna-Siddhanta

to Table I, "Indun Calendar."

to the AD. years in col 5, as in Table I, "Indian Calendar"

schere differences exist from Sürya-Siddhanta nomenclature in tiue solar years

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Mean solar year. Mean sun solar year (nean sun see of the civil day on which Chaitra suala 1 pads								
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21 Mar. (80)	5 Thur		7 15	17 Mar (76)	1 Sun	238 5972	3716 2717	
21 Mar (80)	6 Fri		9 24	6 Mar (65)	5 Thur 8 Tues	114 3199 828 6747	8717 8718	
20 Mar (80)	0 Sat	14 4		24 Fob (55)	1 San	24 7252	8718 8719	
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TABLE

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XC-contd

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20 Mar (80) .	5 Thur.	15	30	Đ	10 Mar (70)	2 Mon	149 4852	8722
20 Mar (79)	6 ln.	21	42	18	27 lob (58)	6 Frı	25 2081	3723
21 Mar (80)	1 Sun	3	54	27	18 Mar (77)	5 Thur	59 8904	3724
21 Mar (80)	2 Mon	10	6	86	8 Mar (67)	3 Tues	274 2458	8725
20 Mar (80)	3 Tues	16	18	45	25 Feb (56)	0 Sat.	149 9682	3726
20 Mar (79)	4 Wed	22	30	54	15 Mar (74)	6 Frı	184 6506	8727
21 Mar (60)	6 Fr	4	43	3	4 Mar (63)	3 Tues	60 3734	3728
21 Mar (80)	0 Sat	10	55	12	22 Feb (53) .	1 Sun	274 7282	3729
20 Mar (80)	1 Sun	17	7	21	12 Mar (72)	0 £at.	309 4106	8780
20 Mar (79)	2 Mon	23	19	30	1 Mar (60)	4 Wed.	185 1334	3731
21 Mar (80)	4 Wed	5	31	3 9	20 Mar (79)	3 Tues	219 8158	8732
21 Mar. (80)	5 Thur	11	43	48	9 Mar (68)	0 Sat	95 5387	8733
20 Mar (80) .	6 Fra.	17	55	57	27 Feb (58)	5 Thur	309 8985	8734
21 Mar (80)	1 Sun	0	8	6	16 Mar (75)	3 Tues	5 9489	8785
21 Mar. (80)	2 Mon	6	20	15	6 Mar (65)	1 San	220 2987	3736
21 Mar, (80) .	8 Tues	12	82	24	28 Feb (54)	5 Thur	96 0216	3737
20 Mar. (80) .	4 Wed	18	44	33	13 Mar (73)	4 Wed	130 7040	3738
21 Mar (80)	6 Fr	0	56	42	2 Mar (61)	1 Sun	6 4268	3789
21 Mar (80)	0 Sat .	7	8	51	20 Feb (51)	6 Frı	220 7816	3740
21 Mar (80)	1 Sun	13	21	0	11 Mar (70)	5 Thur .	255 4640	8741
20 Mar (80)	2 Mon	19	33	9	28 Feb. (59)	2 Mon	131 1868	3742
21 Mar. (80)	4 Wod	1	45	18	18 Mar (77)	1 Snn	165 8692	3743
21 Mar (80)	5 Thur	7	57	27	7 Mar (66)	5'I'nur .	41 5921	3744
21 Mar (80)	6 Fin .	24	9	36	25 Feb '56) .	8 ใ แอจ	255 9470	3745

TABLE

			•	CONC	JRRENT YE	AR		
T. 1.	Śaka	71krama.	Mēshādı solar year ın Bengal	JOVIAN SAMVATEARA.		WVATSARA.	Mean intercalated (adhika) lunar month	
Kalı	Saka	Chattrādı Vıkrama.	Meshadı so Bengal	Konam	K D	Southern system	Northern system	
1	2	8	8a	4	5	6	7	8a
0740	×07	700	51		*0.4.4"	0 × 70		
3746	567	702			*644 45	35 Pla		
3747	568	703	52		645 46	36 Śuł	-	
3748	569	704	53		646-47	37 Śōb		3 Jyështha .
3749	570	705	54		647-48	38 Kr		
3750	571	706	55		*648 49		รงลิงasn †	11 Māgha .
3751	572	707	56		649 50	41 <i>Pl</i>	aranga	
3752	578	708	57	}	650 51	42 Kī	laka	
8753	571	709	58		651-52	43 Sa	umya .	8 Kārttika .
3754	575	710	59		*652-53	44 Sā	dhārana	
3755	576	711	60		653-54	45 Tr	rõdhakrıt	
3756	577	712	61		654 55	46 Pa	ridhāv in	4 Āshādha .
3757	578	718	62		655 56	47 Pr	amādı <u>n</u>	
\$758 \$759	579	714	63		*656 57	48 Ān	anda	. ,
3760	580	715	- I		657-58	49 R	ikshasa	1 Chartra .
3761	581 582	716	1	1	658 59	50 A1	nala .	
3762	1	717		1	659 60	51 Pı	ngala	9 Mārgasıra .
3763	1	1	1	ı	*660 61		ālay ukta .	
3764	4	1	1	1	661-62	[ddhärthm	1
376	1 -	1	1	1	662 68	i	audra	6 Bhādrapada
3766	l -	i i	- (- 1	663 64		urmatı	
376		j	1	2	*664 65 665-66	ł .	andabhi .	
376	1	ì	(8	666 67	1	udhirödgärin	. 2 Va sākha
67 0	9 59	1	1	4	667-68	į.	aktaksha	
377	0 59	1 72	1	15	*668-69	1	rodhana	. 11 Māgha
==				0 Parābha		60 K	shaya	

^{† 40} Parabhaya was suppressed, both in messi and true reckoning

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			IENT OF THE						
MEAN SOLAR YEAR MEAN LUNI SOLAR YEAR (MEAN SUNRISE OF THE CIVIL DAY ON WHICH CHAITRA SUKLA 1 ENDS)									
Day and month	Week-day	Time of mean Mēsha- samkrānti	Day and month	Week-day	a (hero = a the index of the tithi				
13	14	17	19	20	23	1			
20 Mar (80)	0 Sat.	H M S 20 21 45	15 Mar (75)	2 Mon	290 6293	-i			
21 Mar (80)	2 Mon	2 33 54	4 Mar (68)	6 Fr	166 3522	8740			
21 Mar (80)	3 Ines	8 46 8	21 Feb (52)	3 Tues	42 0750	8747 8748			
21 Mar (80)	4 Wed	14 58 12	12 Mar (71)	2 Mon	76 7573	3749			
20 Mar (80)	5 Thur	21 10 21	1 Mar (61)	0 Sat	291 1122	8750			
21 Mar (80)	. 0 Sat.	3 22 30	20 Mar (79)	6 Fri	825 7946	8751			
21 Mar (80)	. 1 Sun	9 34 39	9 Mar (68)	3 Tues	201 5175	8752			
21 Mar (80) .	2 Mon	15 46 48	26 Feb (57)	0 Sat	77 2402	3753			
20 Mar (80)	. 8 Tues	21 58 57	16 Mar (76)	0 Sat.	111 9227	3754			
21 Mar (80) .	5 Thur	4 11 6	6 Mar (65)	4 Wed	326 2775	3755			
21 Mar (80)	6 Fri	ľ	23 Feb (54)	1 Sun	202 0003	8756			
21 Mar (80) .	O Sat.		14 Mar (78)	O Sat.	236 6827	8757			
20 Mar (8C)	1 Sun	22 47 83	2 Mar (62)	4 Wed	112 4056	8758			
21 Mar (80)	3 Tues		20 Feb (51)	2 Mon	826 760 <u>4</u>	8759			
21 Mer (80) .	4 Wed		O Mar (69)	0 Sat.	22 8108	376 Q			
21 Mar (80) .	5 Thur		28 T'eb (59)	5 Thur	287 1656	8761			
20 Mar (80)	6 Fr ₁ ,		8 Mar (78)	4 Wed	271 8440	3762			
1 Mar (80) 1 Mar (80) .	1 Snn		7 Mar (66)	1 Sun	147 5708	3763			
1 Mar (80) .	1. 1		4 Fch (55)	5 Thur	23 2937	8764			
1 Mar (81) .	5 Thur		5 Mar (74)	4 Wed	57 9761	3765			
1 Mar (80) .	6 Fri	i i		2 Mon	272 8310	3766			
1 Mar (80)	1	1		6 Fri	148 0587	3767			
1 Mar (80)	1. 1			5 Thur 2 Mon	182 7861	\$768			
1 Mar (81)				L Sun	58 4590 98 1418	3769 3770			

				CONC	JRRENT YE	LAR			
Kalı	Šaka	7.krama	lar year ın	Kollam	A,D	JOVIAN SAN	MVATSABA		Mean intercalated (adhika) lunar month
Rui	BARE	Chartrâdı Vıkrama	Mčshādı solar year Bongal	Kolikili	ע,ם	Southern Northern system			Montu
1	2	3	3a	4	5	6	7		8a
3771	592	727	76		669-70	1 Pra	bhasa .		
9772	593	798	77		670-71	2 Vib	hava	}	7 Asvina .
3773	594	729	78		671-72	3 Suk	da .	ı	
3774	595	730	79		*672-73	4 Pra	möda		••
3775	596	731	80		673-74	5 Pra	jāpatı	.]	4 Āshādha .
3776	597	732	81		674-75	6 Ang	giras		•••
3777	598	733	82		675-76	7 Ś r ī	mukha .		
3778	599	784	83		*676-77	8 Bhi	ira .		1 Chartra .
8779	600	735	84		677-78	9 Yu	van .]	•••
3780	601	736	85		678-79	10 Dh	ātņ .		9 Mārgasıra .
3781	602	737	86		679-80	11 I śv	ara .		***
8782	603	738	87		#680-81	12 Bal	hudhānya		•
3783	604	739	88		681-82	13 Pr	amáthm .		6 Bhādrapada .
3784	605	740	89		682-83	14 Vi	Lrama .		•••
3785 8786	606	741	90	}	683 84	15 V _r	isha		***
8787	607	742	1		*684 85	16 Ch	itrabhānu		2 Valsākha .
8783	}	1	l l	ţ	685-86	17 Su	bhānu .		•
8769	1	}	1	1	686 87	18 Tā	irana .	•	11 Māgba .
3790	1		- 1	į.	687-88		irthiva .		<i></i>
3791	{	1	l	1	*688-89	20 V		•	•
8799	- 1	1	1	1	689-90 690-91		reagit .	•	7 Āśvina .
370;	614	ł	- {	{	691-92		rvadhärm	•	***
3794	61	5 75	1	1	*692-93	ì	rödhm .	:	,
872	5 61	75	1 10	n }	693-94	24 V		• •	4 Åshädha .
					-	25 K	nara .	•	***

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COMMENCEMENT OF THE												
	(COM	MEN	CEA	LENT OF THE							
Mean s	OLAR YEAR	***************************************		-	MFAN LUNI-80LAR CIVIL DAY ON WIT	TEAR (MEAN S ICH CHAITRA É	UNRISE OF THE UKLA 1 ENDS)	Kalı.				
Day and month, A.D.	Weck-day.	me	limo in M mkrā	čsha-	Day and month,	Week-day	a (here=t, the index of the tithi)					
13	14		17		19	20	23	1				
		H	M	8		\ <u> </u>						
21 Mar (80)	4 Wed	7	25	30	9 Mar (68)	6 Fri	807 4962	8771				
21 Mar (80)	5 Thur	18	37	89	26 Feb (57)	3 Tues	183 2190	8772				
21 Mar (80) .	6 Frı	19	49	48	17 Mar (76)	2 Mon	217 9015	8773				
21 Mar (81) .	1 Sun	2	1	57	5 Mar (65)	6 Fr	98 6242	8774				
21 Mar (80) .	2 Mon	8	14	6	28 Feb (54)	4 Wed	807 9791	8775				
21 Mar (80)	8 Tues	14	26	15	13 Mar (72)	2 Mon	4 0295	8776				
21 Mar (80)	4 Wed.	20	38	24	8 Mar (62)	0 Sat	218 3843	8777				
21 Mar (81)	6 Fri	2	50	83	20 Feb (51)	4 Wed.	94 1071	3778				
21 Mar (80)	0 Sat.	9	2	42	10 Mar (69)	3 Tues .	128 7896	3779				
21 Mar (80)	1 San	15	14	51	27 Feb (58)	0 Sat.	4 5124	3780				
21 Mar. (80)	2 Non	21	27	0	18 Mar (77)	6 Fr	89 1947	8781				
21 Mar (81) .	4 Wed	8	89	9	7 Mar (67)	4 Wed .	253 5496	3782				
21 Mar (80)	5 Thur	9	51	18	24 Feb (55)	1 Sun .	129 2725	878 8				
21 Mar. (80)	6 Fri	16	8	27	15 Mar (74)	O Sat .	163 9549	3784				
21 Mar (80) .	O Sat	22	15	86	4 Mar. (68)	4 Wed .	89 6776	3785				
21 Mar (81)	2 Mon	4	27	45	22 Feb. (53)	2 Mon	254 0325	3786				
21 Mar (80)	8 Tues	10	89	54	12 Mar (71)	1 San	288 7149	3787				
21 Mar (80)	4 Wed	16	52	8	1 Mar (60)	5 Thur	164 4377	8788				
21 Mar (80) .	5 Thur	23	4	12	20 Mar (79)	4 Wed	199 1200	8789				
.21 Mar (81)	0 Sat.	5	16	21	8 Mar (68)	1 San	74-8430	8790				
21 Mar (80)	1 Sun .	11	28	80	26 Feb (57)	6 Frı	289 1978	8791				
21 Mar. (80)	2 Mon .	17	40	89	17 Mar (76)	5 Thur	828 8802	8792				
21. Mar. (80)	8 Tues .	23	52	48	6 Mar (65)	2 Mon	199 6080	8798				
21 Mar (81)	5 Thur	6	4	57	23 Feb. (54)	6 Fr	76 8259	8794				
21 Mar. (80) .	6 Fri.	12	17	в	13 Mar. (72)	5 Thur.	110 0082	8796				
								2 H 2				

				(CONC	JRRENT Y	EAR			
		ama.	year in				Jovian Sai	MVATSABA.		Mean intercalated adhika) lunar
Ksh.	Saka.	Chatteādı Vikrama.	Mëshadi solar Peresi	ı	llam	A D.	Southern system	Northern system		month
1	2	3	30		4	5	6	7		8a
3796	617	752	2 10	11		694-95	26 Na		1	2 Phālguna
3797	618	75	3 10	02		695-96	27 V13		-	
3798	619	75	4 10	03		*695-97	28 Ja		1	
3799	620	75	5 1	04.		697-98	_, _	nmatha	1	9 Mārgasīra
3800	621	75	6 1	05		698-99 80 Durmul			I	
3801	622	75	7 1	06		699 700	l l	malamba	1	
8802	629		ı	.07		*700 01	82 Vi	- /	- 1	5 Śrāvana .
3803	62	ı		.08		701.02	33 V1		1	• •
3804	}			L09		702-03	}	ryarın .	- 1	
3805	1	- }		110		703 04	35 Pl		1	2 Varšākha
3806	1	` } `	Į	111		*704-05	1	ibhakrit .	- 1	10 D - 1-
3807 3809	1	}	1	112		705 06	}		l	10 Pausha .
380	1	- 1	765	114		706-07		rõdhin iévävasu		
381			766	115		*708-0	1	arābhava	1	7 Aśvina
381			767	116		709-1		lavanga		
381	- 1	- 1	768	117		710-1		lijaka .		104
\$8	13	884	769	118		711-1	į.	Saumya		4 Ashādha
38	14	635	770	119		*712-1	1	adbāraņa .		1.1
38	315	636	771	120		713-1	1	Vırödhakrıt	•	12 Phalguna
31	816	637	772	121		714-	1	Paridhävin .	•	, ,
	817	638	778	122				Pramādin .	•	
	818	639	774	123		*716-	17 48	Ananda .		9 Mätgasiru
	1919	640	775	124	į	717-	18 49	Rākshusa ,	•	
	8620	641	778	125		718	19 50	Anala .	•	

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22 Mar (81) 2 Mon O 41 24 21 Mar. (80) . 1 Sun 20 4185 3797 21 Mar (81) 3 Tues . 6 53 33 10 Mar. (70) 6 Fr. 234-7683 3798 21 Mar. (80) 4 Wod. 13 5 42 27 Feb. (58) 3 Tues 110 4911 3799 21 Mar (80) 5 Thur 19 17 51 18 Mar (77) 2 Mon 145 1735 3800 22 Mar (81) . 0 Sat. 1 30 0 7 Mar (60) . 6 Fri. 20 8963 3801 21 Mar (80) . 2 Mon 13 54 18 15 Mar. (74) 3 Tues 239 9386 3803 21 Mar (80) . 2 Mon 13 54 18 15 Mar. (74) 3 Tues 239 9386 3803 21 Mar (80) . 3 Tues 20 6 27 4 Mar. (63) 0 Sat 145 6564 3804 22 Mar. (81) 5 Thur 2 18 36 21 Feb (52) . 4 Wed. 21 3792 3805 21 Mar. (81) . 6 Fri. 8 30 45 11 Mar (71) 3 Tues 56 0616 3806 21 Mar. (80) . 0 Sat 14 42 54 1 Mar (60) . 1 San. 270 4164 3807 21 Mar. (80) . 1 San 20 55 3 20 Mar (79) 0 £xt. 305 0988 3808 22 Mar (81) . 3 Tues. 3 7 12 9 Mar (08) 4 Wed 180 8217 3809 21 Mar. (80) . 6 Fri. 21 43 39 6 Mar (75) 0 Sat. 91 2269 3811 21 Mar. (80) . 6 Fri. 21 43 39 6 Mar (65) 5 Thur. 305 5817 3812 22 Mar (81) . 1 Sun 3 55 48 28 Feb (54) 2 Mon 161 3046 3813 21 Mar. (80) . 4 Wed 22 32 15 21 Mar (75) 1 Sun 215 9869 3914 21 Mar. (80) . 6 Fri. 21 43 39 6 Mar (75) 1 Sun 215 9869 3914 21 Mar. (80) . 6 Fri. 21 43 89 6 Mar (65) 5 Thur. 305 5817 3812 22 Mar (81) . 1 Sun 3 55 48 28 Feb (54) 2 Mon 161 3046 3813 21 Mar. (80) . 4 Wed 22 32 15 21 Mar (60) 4 Wed 126 3922 3616 22 Mar (81) . 6 Fri. 44 42 41 10 Mar (69) . 1 Sun 215 9869 3914 21 Mar. (80) . 4 Wed 22 82 15 21 Mar (60) 4 Wed 126 3922 3616 22 Mar (81) . 6 Fri. 44 42 42 10 Mar (69) . 1 Sun 215 9829 3616 22 Mar (81) . 6 Fri. 44 42 42 10 Mar (69) . 1 Sun 215 160 3817 21 Mar. (80) . 6 Fri. 44 42 42 10 Mar (69) . 1 Sun 215 160 3817 21 Mar. (80) . 1 Sun . 17 8 42 18 Mar (77) 5 Thur 251 1632 3819													
Day and month. Week-day. Time of mean Michaele. Day and month. Week-day. Time of mean Michaele. Day and month. Week-day. a (horo=4, the index of the tital)		, co	MMENCEME	ENT OF THE									
18	Mran i	SOLAR YEAR.		Mean Luni-solar Y. Civil day on whic	BAR (MEAN SU) HI CHAITRA SI	NEISE OF THE UKLA 1 ENDS)	Kalı.						
H M. S. 18 20 15 8 Mar. (62) . 3 Tues . 324 3631 8796 22 Mar (81) . 2 Mon . 0 41 24 21 Mar. (80) . 1 Sun 20 4135 8797 21 Mar (81) . 3 Tues . 6 58 38 10 Mar. (70) 6 Fr1 234 7683 8798 21 Mar. (80) . 4 Wod. 18 5 42 27 Feb. (68) 3 Tues 110 4911 8798 21 Mar. (80) 5 Thur 19 17 51 18 Mar. (77) 2 Mon 145 1735 8800 121 Mar. (81) . 0 Sat. 1 30 0 7 Mar. (60) . 6 Fr1. 20 8963 8801 121 Mar. (81) . 1 Sun 7 42 9 25 Feb (68) . 4 Wed. 235 2512 8802 121 Mar. (80) . 2 Mon 13 54 18 15 Mar. (74) 3 Tues 209 9386 3803 21 Mar. (80) . 3 Tues 20 6 27 4 Mar. (63) 0 Sat 145 8684 8804 22 Mar. (81) . 5 Thur 2 18 36 21 Feb (52) . 4 Wed. 21 1792 8805 21 Mar. (81) . 6 Fr1. 8 30 45 11 Mar. (61) . 8 Tues 56 0616 8806 21 Mar. (80) . 0 Sat 14 42 54 1 Mar. (60) . 1 Sun 270 4164 8807 21 Mar. (80) . 1 Sun . 20 55 8 20 Mar. (79) 0 Sat. 305 0988 8808 22 Mar. (81) . 3 Tues . 3 7 12 9 Mar. (68) . 4 Wed. 180 8217 8809 21 Mar. (80) . 5 Thur. 15 31 30 16 Mar. (75) 0 Sat. 91 2269 8811 21 Mar. (80) . 6 Fr1. 21 43 39 6 Mar. (65) 0 Sat. 91 2269 8811 21 Mar. (60) . 6 Fr1. 21 43 39 6 Mar. (65) 2 Mar. (61) . 1 Sun 56 5444 8810 21 Mar. (60) . 6 Fr1. 21 43 39 6 Mar. (65) 5 Thur. 805 5817 5812 22 Mar. (61) . 2 Mon 10 7 57 18 Mar. (78) 1 Sun 215 5869 8814 21 Mar. (60) . 4 Wed 22 32 15 21 Mar. (60) . 5 Thur. 91 7098 8814 21 Mar. (60) . 4 Wed 22 32 15 21 Mar. (60) . 5 Thur. 91 7098 8814 21 Mar. (60) . 4 Wed 22 32 15 21 Mar. (60) . 5 Thur. 91 7098 8814 21 Mar. (60) . 6 Fr1. 4 44 42 41 10 Mar. (60) . 5 Thur. 91 7098 8814 21 Mar. (60) . 6 Fr1. 4 44 42 41 10 Mar. (60) . 5 Thur. 216 4698 8818 21 Mar. (60) . 6 Fr1. 4 44 42 41 10 Mar. (60) . 5 Thur. 216 4698 8818 21 Mar. (60) . 6 Fr1. 4 44 42 41 10 Mar. (60) . 5 Thur. 216 4698 8818 21 Mar. (60) . 6 Fr1. 4 44 42 41 10 Mar. (60) . 5 Thur. 216 4698 8818 21 Mar. (60) . 1 Sun . 17 8 42 18 Mar. (77) 5 Thur. 216 4698 8818 21 Mar. (60) . 1 Sun . 17 8 42 18 Mar. (77) 5 Thur. 216 4698 8818 21 Mar. (80) . 1 Sun . 17 8 42 18 Mar. (77) 5 Thur. 216 4698 8818 21 Mar. (80) . 1 Sun . 17 8 42 18 Mar. (77) 5 Thur. 216 4698 8818 21 Mar. (8	Day and month, A.D.	Wook-day.	mean Mésha-		Week-day.	the index							
21 Mar. (80) . 0 Sat. . 18 20 15 3 Mar. (62) . 3 Taes . 324 3031 8796 22 Mar. (81) . 2 Mon. . 0 41 24 21 Mar. (80) . 1 Sun 20 4185 3797 21 Mar. (80) . 3 Taes . 6 53 33 10 Mar. (70) . 6 Fr. 2347683 3798 21 Mar. (80) . 4 Wed. 13 5 42 27 Feb. (58) . 3 Taes 110 4911 8793 21 Mar. (80) . 5 Thur 19 17 51 18 Mar (77) 2 Mon 145 1735 8800 22 Mar. (81) . 0 Sat. 1 30 0 7 Mar (60) . 6 Fri. 20 8963 3801 21 Mar. (81) . 1 Sun 7 42 9 25 Feb (56) . 4 Wed. 235 2512 3802 21 Mar. (80) . 2 Mon 13 54 13 15 Mar. (74) 3 Taes 269 9386 3802 21 Mar. (81) . 5 Thur 2 18 36 21 Feb (52) . 4 Wed. 21 3792 3805 21 Mar. (81) . 6 Fri. 8 30 45 11 Mar (71) 3 Taes 26 9386 3806 21 Mar. (80) . 0 Sat 14 42 54 1 Mar (60) 1 Sun. 270 4164 3807 21 Mar. (80) . 1 Sun 20 55 3 20 Mar (79) 0 Sat.<	13	14	17	19	20	28	1						
22 Mar (81) 2 Mon O 41 24 21 Mar. (80) . 1 Sun	21 Mar. (80)	0 Sat	•	8 Mar. (62) .	3 Tues .	824 8631	8796						
21 Mar (81) 3 Tues 6 53 33 10 Mar. (70) 6 Fr. 234-7683 3798 21 Mar. (80) 4 Wed. 18 5 42 27 Feb. (58) 3 Tues 110 4911 3798 21 Mar (80) 5 Thur 19 17 51 18 Mar (77) 2 Mon 145 1735 3800 22 Mar (61) 0 Sat. 1 30 0 7 Mar (66) . 6 Fri. 20 8963 3801 21 Mar (80) . 2 Mon 13 54 18 15 Mar. (74) 3 Tues 269 9386 3808 21 Mar (80) . 3 Tues 20 6 27 4 Mar. (63) 0 Sat 145 6564 3804 22 Mar. (81) . 5 Thur 2 18 36 21 Feb (52) . 4 Wed. 21 3792 3805 21 Mar. (81) . 6 Fri. 8 30 45 11 Mar (71) 3 Tues 56 0616 3806 21 Mar. (80) 1 Sun . 20 55 8 20 Mar (79) 0 £at. 305 0988 3808 22 Mar. (81) . 3 Tues 3 7 12 9 Mar. (68) 4 Wed. 180 8217 3809 21 Mar. (80) 5 Thur. 15 81 80 16 Mar (75) 0 Sat. 91 2289 3811 21 Mar. (80) 6 Fri. 21 43 89 6 Mar (65) 5 Thur. 305 5817 3812 22 Mar. (81) . 1 Sun 3 55 48 23 Feb (54) 2 Mon 161 8046 3813 21 Mar. (80) . 3 Tues 16 20 6 2 Mar (78) 1 Sun 215 9869 3814 21 Mar. (80) . 6 Fri. 21 43 89 6 Mar. (65) 5 Thur. 305 5817 3812 22 Mar. (81) . 2 Mon 10 7 57 18 Mar. (78) 1 Sun 215 9869 3814 21 Mar. (80) . 3 Tues 16 20 6 2 Mar. (61) 5 Thur. 91 7098 3815 21 Mar. (80) . 3 Tues 16 20 6 2 Mar. (61) 5 Thur. 91 7098 3815 21 Mar. (80) . 4 Wed. 22 32 15 21 Mar. (80) 4 Wed. 128 3922 3816 22 Mar. (81) . 0 Sat. 16 20 6 2 Mar. (69) 1 Sun 215 9869 3814 21 Mar. (80) . 3 Tues 16 20 6 2 Mar. (61) 5 Thur. 91 7098 3815 21 Mar. (80) . 4 Wed. 22 32 15 21 Mar. (80) 4 Wed. 128 3922 3816 22 Mar. (81) . 0 Sat. 16 56 33 28 Feb (59) 6 Fri. 216 4698 3818 21 Mar. (80) 4 Wed. 22 32 15 21 Mar. (80) 4 Wed. 128 3922 3816 22 Mar. (81) . 0 Sat. 10 56 33 28 Feb (59) 6 Fri. 216 4698 3818 21 Mar. (80) 1 Sun . 17 8 42 18 Mar. (77) 5 Thur. 251 1632 3819	1	2 Mon	0 41 24	21 Mar. (80) .	1 Sun	20 4135	8797						
21 Mar. (80)		3 Tues .	6 58 88	10 Mar. (70)	6 Fra	234-7683	8798						
21 Mar (80) 5 Thur		4 Wod.	13 5 42	27 Feb. (58)	3 Tuos	110 4911	8799						
22 Mar (81) 0 Sat.		5 Thur	19 17 51	18 Mar (77)	2 Mon	145 1785	3800						
21 Mar (81)	1	0 Sat.	1 80 0	7 Mar (66) .	6 Fri.	20 8963	3801						
21 Mar (80)	1	1 Sun	7 42 9	25 Feb (56) .	4 Wed.	235 2512	3802						
21 Mar (80) . 3 Tues 20 6 27 4 Mar. (63) 0 Sat 145 6564 8804 22 Mar. (81) 5 Thur 2 18 86 21 Feb (52) . 4 Wed. 21 9792 3805 21 Mar. (81) . 6 Fr1. 8 30 45 11 Mar (71) 3 Tues 56 0616 3806 21 Mar. (80) . 0 Sat 14 42 54 1 Mar (60) . 1 Sun 270 4164 3807 21 Mar. (80) . 1 Sun . 20 55 8 20 Mar (79) 0 Sat. 305 0988 3808 22 Mar (81) . 3 Tues 8 7 12 9 Mar (68) 4 Wed 180 8217 3809 21 Mar. (81) . 4 Wed 9 19 21 26 Feb (57) 1 Sun 56 5444 3810 21 Mar. (80) . 5 Thur. 15 31 30 16 Mar (75) 0 Sat. 91 2269 3811 21 Mar. (80) . 6 Fr1. 21 43 39 6 Mar (65) 5 Thur. 305 5817 3812 22 Mar (81) . 1 Sun 3 55 48 23 Feb (54) 2 Mon 181 3046 3813 21 Mar (80) . 3 Tues 16 20 6 2 Mar (61) 5 Thur. 91 7098 3816 21 Mar. (80) . 4 Wed 22 32 16 21 Mar (80) 4 Wed 126 3922 3816 22 Mar (81) . 6 Fr1. 4 44 24 10 Mar (69) . 1 Sun 2 1150 3817 21 Mar. (81) . 0 Sat. 10 56 33 28 Feb (59) 6 Fr1 216 4698 3818 21 Mar. (81) . 0 Sat. 10 56 33 28 Feb (59) 6 Fr1 216 4698 3818 21 Mar. (80) . 1 Sun . 17 8 42 18 Mar (77) 5 Thur 251 1632 3819		2 Mon	18 54 18	15 Mar. (74)	3 Tues	269 9336	3803						
21 Mar. (81) 6 Fr1. 8 30 45 11 Mar (71) 3 Tues 56 0616 3806 21 Mar (80) 0 Sat 14 42 54 1 Mar (60) . 1 Sun		3 Tues	20 6 27	4 Mar. (63)	0 Sat	145 6564	8804						
21 Mar. (80) 0 Sat	22 Mar. (81)	5 Thur	2 18 86	21 Feb (52) .	4 Wed.	21 8792	3805						
21 Mar. (80)	21 Mar. (81)	6 Fr1.	8 30 45	11 Mar (71)	8 Tues	56 0616	3806						
22 Mar (81) . . 3 Tues. . 3 7 12 9 Mar (68) 4 Wed 180 8217 3809 21 Mar. (81) . . 4 Wed 9 19 21 26 Feb (57) 1 Sun 56 5444 3810 21 Mar. (80) . 5 Thur. 15 31 80 16 Mar (75) 9 Sat. 91 2269 3811 21 Mar. (80) . 6 Fr. 21 43 89 6 Mar (65) 5 Thur. 305 5817 3812 22 Mar (81) . 1 Sun 3 55 48 23 Feb (64) 2 Mon 181 8046 3813 21 Mar (81) . 2 Mon 10 7 57 13 Mar (73) 1 Sun 215 9869 3814 21 Mar (80) . 3 Tues 16 20 6 2 Mar (61) 5 Thur. 91 7098 3816 21 Mar (80) . 4 Wed 22 32 15 21 Mar (80) 4 Wed 126 3922 3816 22 Mar (81) . 6 Fr. . 4 44 24 10 Mar (69) . 1 Sun 2 1150 3817 21 Mar (80) . 1 Sun . 10 56 33 28 Feb (59) 6 Fr. 216 4698 3818	21 Mar (80)	0 Sat	14 48 54	1 Mar (60) .	1 Sun	270 4164	8807						
21 Mar. (81) 4 Wed 9 19 21 28 Feb (57) 1 Sun 56 5444 3810 21 Mar. (80) 5 Thur. 15 81 80 16 Mar (75) 9 Sat. 91 2289 3811 21 Mar. (80) 6 Fr. 21 43 89 6 Mar (65) 5 Thur. 305 5817 3812 22 Mar (81) . 1 Sun 3 55 48 23 Feb (54) 2 Mon 161 3046 3818 21 Mar (81) . 2 Mon 10 7 57 18 Mar (73) 1 Sun 215 9869 3814 21 Mar (80) . 3 Tues 16 20 6 2 Mar (61) 5 Thur. 91 7098 3815 21 Mar. (80) . 4 Wed 22 82 15 21 Mar (80) 4 Wed 128 3922 3816 22 Mar (81) . 6 Fr. 4 44 24 10 Mar (69) . 1 Sun 2 1150 3817 21 Mar. (81) . 0 Sat. 10 56 33 28 Feb (59) 6 Fr. 216 4698 3818 21 Mar. (80) 1 Sun . 17 8 42 18 Mar (77) 5 Thur 251 1632 3819	21 Mar. (80)	1 Sun .	20 55 8	20 Mar (79)	0 Est.	305 0988	8808						
21 Mar. (80) 5 Thur. 15 31 80 16 Mar (75) 9 Sat. 91 2269 3811 21 Mar. (80) 6 Fr. 21 43 39 6 Mar (65) 5 Thur. 305 5817 3812 22 Mar (81) . 1 Sun 3 55 48 23 Feb (54) 2 Mon 181 3046 3813 21 Mar (81) . 2 Mon 10 7 57 13 Mar (73) 1 Sun 215 9869 3814 21 Mar (80) . 3 Tues 16 20 6 2 Mar (61) 5 Thur. 91 7098 3815 21 Mar. (80) 4 Wed 22 32 15 21 Mar (80) 4 Wed 126 3922 3816 22 Mar (81) . 6 Fr 4 44 24 10 Mar (69) . 1 Sun 2 1150 3817 21 Mar. (81) . 0 Sat. 10 56 33 28 Feb (59) 6 Fr 216 4698 3818 21 Mar. (80) 1 Sun . 17 8 42 18 Mar (77) 5 Thur 251 1632 3819	22 Mar (81)	3 Tues	8 7 12	9 Mar (68)	4 Wed	180 8217	8809						
21 Mar. (80) . 6 Fr. 21 43 89 6 Mar (65) 5 Thur. 305 5817 3812 22 Mar (81) . 1 Sun 3 55 48 23 Feb (54) 2 Mon 181 3046 3813 21 Mar (81) . 2 Mon 10 7 57 18 Mar (73) 1 Sun 215 9869 3814 21 Mar (80) . 3 Tues 16 20 6 2 Mar (61) 5 Thur. 91 7098 3815 21 Mar. (80) . 4 Wed 22 32 15 21 Mar (80) 4 Wed 126 3922 3816 22 Mar (81) . 6 Fr. . 4 44 24 10 Mar (69) . 1 Sun 2 1150 3817 21 Mar. (81) . 0 Sat. 10 56 33 28 Feb (59) 6 Fr. 216 4698 3818 21 Mar. (80) . 1 Sun . 1 Sun . 17 8 42 18 Mar (77) 5 Thur 251 1632 3819	21 Mar. (81)	4 Wed	9 19 21	26 Feb (57)	1 Sun	56 5 444	3810						
22 Mar (81) . 1 Sun 3 55 48 23 Feb (54) 2 Mon 181 3046 3813 21 Mar (81) . 2 Mon 10 7 57 18 Mar (73) 1 Sun 215-9869 3814 21 Mar (80) . 3 Tues 16 20 6 2 Mar (61) 5 Thur. 91 7098 3815 21 Mar, (80) . 4 Wed 22 32 15 21 Mar (80) 4 Wed 126 3922 3816 22 Mar (81) . 6 Fr1. 4 44 24 10 Mar (69) 1 Sun 2 1150 3817 21 Mar, (81) . 0 Sat. 10 56 33 28 Feb (59) 6 Fr1 216 4698 3818 21 Mar, (80) . 1 Sun 17 8 42 18 Mar (77) 5 Thur 251 1632 3819	21 Mar. (80)	5 Thur.	15 81 80	16 Mar (75)	9 Sat.	91 2269	3811						
22 Mar (81) . 2 Mon	21 Mar. (80)	6 Fra.	21 43 89	6 Mar (65)	5 Thur.	805 5817	3812						
21 Mar (80) .	22 Mar (81) .	1 Sun	3 55 48	23 Feb (54)	2 Mon	181 8046	3813						
21 Mar. (80)	21 Mar (81) .	2 Mon	10 7 57	13 Mar (78)	1 Sun .	215-9869	8814						
22 Mar. (80)	21 Mar (80) .	8 Tues	16 20 6	2 Mar (61)	5 Thur.	91 7098	3815						
22 Mar. (81)	21 Mar. (80) .	4 Wed	22 82 15	21 Mar (80)	4 Wed								
21 Mar. (80) 1 Sun 17 8 42 18 Mar (77) 5 Thur 251 1632 3819	22 Mar (81) .	6 Fra	4 44 24	10 Mar (69) .	1 San								
21 Mar. (80) 1 Sun . 17 8 42 18 mar (77)	21 Mar. (81)	O Sat.	10 56 83	28 Feb (59)	6 Fra	E							
2 Man (86) 2 Mon 126-8751 3820	21 Mar. (80) .	. 1 San .	17 8 42	18 Mar (77)	5 Thur	ì							
EL MAT. (CU) . Z MION . ZS ZU OL MIG. (CV)	21 Mar. (80) .	2 Mon .	28 20 51	Mar (66)	2 Mon	126-8751	8820						

				CONC	JRRENT YE	AR.	•	
		krame.	r yoar in		_	Joyian Sa	MVATSABA.	Mean intercalated (adhika) lunar
Kalı	Śaka	Chaitride Vekrame.	Mishāds solar ydas Bongal	Kollam	AD.	Southern system.	Northern system	month
1	2	3	Ba	4	В	6	7	8a
3821	642	777	126		719 20	51 Pin	*	5 Śrāvana
3822	643	778	127		*720 21	52 Kāl	•	***
8823	644	779	128		721-22		lhärthin .	•
3824 3825	645 646	780	129		722-23	54 Rat		2 Vaisākha
3826	647	781 782	130		723-24	55 Du	•	
2827	648	783	132	}	*724-25 725-26	56 Da		10 Pausha
3828	649	784			726-27		dhırödgärın . ktäksha	•••
3829	650	785	1	1	727-28		odhana	7 Āsvina
\$830	651	786	135		*728-29	60 Ks		1
3331	652	783	186		729-30		abhaya	
3832	653	78	3 137		730-31	2 Vii	bava	3 Jyështha
3833	654	78	188	3	731-32	3 Śu	kla	
3834	655	1 /	139	9	*732-83	4 Pr	ambda .	12 Phālguna
\$835	656	1 "	-	0	788-34	5 Pr	ajāpatı†	
3836		1 ~	` }	¯ \	734-35	7 \$,	imukha	
3837 3838		1	3. 14	1	735-36	8 B	hāra .	8 Kä rtt ika
3839		. 1	94 14 95 14	i	*736-37	9 F	uvan .	
3840	- }		1	45	737-88	10 D	-	
884	}	. 1 "	- 1	48	739-40		fvara .	5 Srāvana
334	2 6	. 1	- }	47	*740 41		ahudhânya	
384	3 6	64 7	99 1	48	741-42	-	ramāthin	1
384			1 000	49	742-48	'	rishs	1 Chartra
384	3 8 	66 J	201 1	.50	748 44	1	hitrabhānu	10 Pausha

[†] No 6 Abgirns was suppressed according to the mean system By the Brahma-Siddhānia 'true' system K Y. 3836, A.D 734-735, was called Anguas, 7 Srimukha being suppressed. K Y 3837, A.D. 735-36, was 8 Bhāva by both

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COMMENCEMENT OF THE													
Mean e	SOLAB YEAR				Mean Luni-solar y Civil day on whic	year (Mean si Ch Chaitra s	URISE OF THE URLA 1 ENDS)	Kalı					
Day and month, A.D.	Week-day	mea	lime in Mö mkrä	esha-	Day and month, A D	Week-day	a (here=t, the index of the teths)						
13	14		17		19	20	23	1					
		H	M	8									
22 Mar (81)	4 Wed.	5	88	0	24 Feb (55)	6 F11	2.5979	3821					
21 Mar (81)	5 Thur	11	45	9	14 Mar (74) .	5 Thur	87 2803	3822					
21 Mar (80)	6 Fr:	17	57	18	4 Mar (63)	3 Tues .	251 6352	3823					
22 Mar (81)	1 Sun	0	9	27	21 Feb (52)	0 Sat	127 3579	8824					
22 Mar (81) .	2 Mon	6	21	36	12 Mar (71)	6 Fra .	162 0403	8825					
21 Mar (81)	3 Tues	12	33	45	29 Feb, (60)	3 Tues	37 7632	3826					
21 Mar (80)	4 Wed	18	45	54	19 Mar (78)	2 Mon	72 4457	3827					
22 Mar (81)	6 Fr	0	58	3	9 Mar (68) .	0 Sat.	286 8004	3828					
22 Mar (81)	O Sat.	7	10	12	26 Feb (57)	4 Wed	162 5233	8829					
21 Mar (81)	1 Sun	13	22	21	16 Mar (76)	3 Tues	197 2057	8830					
21 Mar (80)	2 Mon	19	84	80	5 Mar (64)	0 Sat	72 9284	3831					
22 Mar (81)	4 Wed	1	46	39	23 Feb (54)	5 Thur	287 2838	3832					
22 Mar (81)	5 Thur	7	58	48	14 Mar (73)	4 Wed	921 9657	8833					
21 Mar (81)	6 Fri .	14	10	57	2 Mar (62)	1 Sun	197 6886	3834					
, 21 Mar (80)	0 Sat.	20	23	6	21 Mar (80)	0 Sat	232 3709	3835					
22 Mar (81)	2 Mon	2	35	15	10 Mar. (69)	4 Wed	108 0948	3836					
22 Mar (81)	3 Tues	8	47	24	28 Feb (59)	2 Mon	322 4486	3837					
21 Mar (81)	4 Wed.	14	59	38	17 Mar (77)	0 Sat	18 4990	3838					
21 Mar (80)	5 Thur	21	11	42	7 Mar (66)	5 Thur .	232 8538	8839					
22 Mar (81)	0 Sat	3	23	51	24 Feb (55)	2 Mon	108 5767	3840					
22 Mar (81)	1 Sun	9	36	0	15 Mar. (74)	1 Sun	143 2591	3841					
21 Mar (81)	2 Mon	15	48	9	3 Mar. (63)	5 Thur	18 9819	3842					
21 Mar (80)	3 Tues	22	0	18	21 Feb. (52)	3 Tues.	233 3367	3843					
22 Mar (81)	5 Thur	4	12	27	12 Mar (71) .	2 Mon.	268-0191	3844					
22 Mar (81)	6 Fri .	10	24	36	1 Mar (60) .	6 Fri	143 7420	3845					

TABLE

				CONCO	RRENT YE	AR,		
Kah	Śaka	Chattrādi Vikrama	dı solar year ın al	Kollam	A D.	JOVIAN SA	MVATSARA Northern	Mean Interculated (adkita) liner month
		Charts	Meshadı Bengal			s) stem	system.	
1	2	3	3a	4	5	6	7	81
3846	667	802	151	·	*744-45	17 Sab	hānu	
3847	668	803	152		745 46	18 Târ	ana	
3848	669	108	153		746-47	19 Pār	thiva .	6 Bhālrapala.
3849	670	805	154		747-48	20 Yya	ya .	
3850	671	806	155		*748 49	21 Sarv	ajıt .	
3351	672	807	156		749-50	22 Sarı	adhārm .	. 8 Jyisktha
3852	678	808	157		750-51	23 V1rð	idhın .	
385 ;	674	809	158		751-52	24 V1k	pta	. 12 Phälguna
3354	675	810	159		*752-53	25 Kha	ra	
3855	676	811	160		753 54	26 Nan	dana	
8856	677	812	161		754 55	27 V1js	ıya	8 Käritila
3857	678	818	162	,	755 56	28 Jay	· .	
3858	679	814	163		*756-57	29 Man	matha	
3859 3860	680	815	164		757-58	30 Dur	mukha .	5 Srāvana
8861	681	816	165	1	758-59	31 Hēu	nalamba	
3862	683	817	166		759-60	32 V11s	mba .	
3563	684	818 819	167		*760 61	88 Vik	ārm	1 Chaitra
8864	685	820	169	i i	761-62	84 Śār	•	
3965	686	821	170		762-63	- 35 Play	•	. 10 Paushn
8866	687	822	171	ì	768 64	36 Subj	•	. 1
8867	688	823	172	1	*784-85 785-86	37 Śdh		•••
8868	689	824	178	ł.	768-67	38 K75	-	6 Bhādrapada
386c	690	825	174	. (767-68	89 V151		
8870	691	826	175		*768 69	40 Pari 41 Pla	•	

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Day and month, A D Week-day Time of mean Mcsha-samkrünti Day and month, A D. Week-day a (here-t, the index of the tithi)	1 3846 3847 3849 3850 3851
Day and month, AD Week-day Time of mean Mēsha-samkrānti Day and month, AD Week-day Time of mean Mēsha-samkrānti Day and month, AD Week-day a (here=t, the index of the titht)	1 3846 3847 3848 3849 3850
Day and month, AD Week-day mean Mēsha-samkrānt: Day and month, AD Week-day the index of the titht)	3846 3847 3848 3849 3850
H M. S. 21 Mar (81) 0 Sat 16 36 45 19 Mar (79) 5 Thur 178 4243 21 Mar (80) 1 Sun 22 48 54 8 Mar (67) 2 Mon 54 1472 22 Mar (81) 3 Tues . 5 1 3 26 Feb (57) 0 Sat. 268 5021 22 Mar (81) . 4 Wed . 11 13 12 17 Mar (76) 6 Fr: 303 1844 21 Mar (81) 5 Thur . 17 25 21 5 Mar (65) 3 Tues 178 9072 21 Mar (80) 6 Fr: 23 37 30 22 Feb (53) 0 Sat. 54 6301 22 Mar (81) 1 Sun 5 49 39 13 Mar (72) 6 Fr: 89 3125 22 Mar (81) . 2 Mon 12 1 48 3 Mar (62) 4 Wed 303 6673	3846 3847 3848 3849 3850
21 Mar (81) 0 Sat. 16 36 45 19 Mar (79) 5 Thur 178 4243 21 Mar (80) 1 Sun 22 48 54 8 Mar (67) 2 Mon 54 1472 22 Mar (61) 3 Tues 5 1 3 26 Feb (57) 0 Sat. 268 5021 22 Mar (81) 4 Wed 11 13 12 17 Mar (76) 6 Fr: 303 1844 21 Mar (81) 5 Thur 17 25 21 5 Mar (65) 3 Tues 178 9072 21 Mar (80) 6 Fr: 23 37 30 22 Feb (53) 0 Sat. 54 6301 22 Mar (81) 1 Sun 5 49 39 13 Mar (72) 6 Fr: 89 3125 22 Mar (81) 2 Mon 12 1 48 3 Mar (62) 4 Wed 303 6673	3847 3848 3849 3850
22 Mar (61) 3 Tues 5 1 3 26 Feb (57) 0 Sat. 268 5021 22 Mar (81) 4 Wed 11 13 12 17 Mar (76) 6 Fr: 303 1844 21 Mar (81) 5 Thur 17 25 21 5 Mar (65) 3 Tues 178 9072 21 Mar (80) 6 Fr: 23 37 30 22 Feb (53) 0 Sat. 54 6801 22 Mar (81) 1 Sun 5 49 39 13 Mar (72) 6 Fr: 89 3125 22 Mar (81) 2 Mon 12 1 48 3 Mar (62) 4 Wed 303 6673	3848 3849 3850
22 Mar (81) 4 Wed 11 13 12 17 Mar (76) 6 Fri 303 1844 21 Mar (81) 5 Thur 17 25 21 5 Mar (65) 3 Tues 178 9072 21 Mar (80) 6 Fri 23 37 30 22 Fob (53) 0 Sat. 54 6301 22 Mar (81) 1 Sun 5 49 39 13 Mar (72) 6 Fri 89 3125 22 Mar (81) 2 Mon 12 1 48 3 Mar (62) 4 Wed 303 6673	3849 3850
21 Mar (81) 5 Thur . 17 25 21 5 Mar (65) 3 Tues 178 9072 21 Mar (80) 6 Fri. 23 37 30 22 Fob (53) 0 Sat. 54 6301 22 Mar (81) 1 Sun 5 49 39 13 Mar (72) 6 Fri 89 3125 22 Mar (81) . 2 Mon 12 1 48 3 Mar (62) 4 Wed 303 6673	3850
21 Mar (80) 6 Fri. 23 37 30 22 Fob (53) 0 Sat. 54 6301 22 Mar (81) 1 Sun 5 49 39 13 Mar (72) 6 Fri 89 3125 22 Mar (81) . 2 Mon 12 1 48 3 Mar (62) 4 Wed 303 6673	
22 Mar (81)	2051
22 Mar (81) . 2 Mon 12 1 48 3 Mar (62) 4 Wed 303 6673	OCOL
22 1111 (01)	3852
21 Mar (81) . 3 Tues 18 13 57 20 Mar. (80) 2 Mon 9999-71775	3853
	8854
22 Mar (81) 5 Thur 0 26 6 10 Mar (69) 0 Sat 214 0726	8855
22 Mar (81) 6 Fr: 6 38 15 27 Feb (58) 4 Wed 89 7953	8856
22 Mar (81) 0 Sat 12 50 24 18 Mar (77) 3 Tues 124 4778	3857
21 Mar (81) 1 Sun 19 2 33 6 Mar (66) 0 Sat. 0 2006 3	8858
22 Mar (81) 8 Tues 1 14 42 24 Feb (55) 5 Thur 214 5555	8859
22 Mar (81) 4 Wed 7 26 51 15 Mar (74) 4 Wed 249 2378	8860
22 Mar (81) . 5 Thur 13 39 0 4 Mar (63) 1 Sun 124 9607 3	3861
21 Mar (81) 6 Fr 19 51 9 21 Feb (52) 5 Thur 0 6835 8	8862
22 Mar (81) 1. Sun. 2 3 18 11 Mar (70) 4 Wed 35 3658 3	3863
22 Mar (81) 2 Mon 8 15 27 1 Mar (60) . 2 Mon 249-7207 3	3864
22 mar (61)	3865
ar mm (or)	866
22 Bian (62)	867
Za Mai (di) . V Sau	888
	869
21 Mar (81) . 2 Mon 21 28 21 23 Fob (54) . 3 Tues 160 6088 36	870

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Kalı	Śaka	Chattrādı Vıkrama.	Mēshādı solar year ın Bengal	Kollam	A.D	JONIAN SA Southern system	Northern system	interested anterested (adhido) luner mouth
			<u> </u>				Бувсен	
1	2	8	3a	4	5	6	7	હ્ય
8871	692	827	176		769 70	42 Kile	aka	
8872	693	828	177		770-71	43 San	mva	11 Māgha
8878	694	829	178		771-72	41 Sādi		11 Mugna
8874	695	880	179		*772-78	45 Virā		
8875	696	831	180		778 74	46 Pari	-	8 Kārttika
3876	697	832	181		774-75	47 Prar		o Raftlika
8877	698	838	182		775-76	48 Āna		
3878	699	834	183		*776-77	49 Rāk	Bhasa	4 Āshādha
3879	700	835	184		777-78	50 Ana)	a	- Neuadna
8880 8881	701	836	185		778 79	51 P ₁ ng	ala	
3882	702 703	837	186	1	779-80	52 Kāla	y ukta	I Chaitra
8883	703	888	187	}	*780 81	53 Sidd	hārthin.	- Chartea .
3884	705	839 840	188	1	781-82	54 Rand	lra.	9 Mārgasīra
3885	706	841	189	}	782 83	55 Darr	natı .	- Jangustia .
3886	707	842	190 191		783-84	56 Dune	lubhı	
8887	708	843	192	1	*784 85	57 Rudi	urōdgārın .	6 Bhadrapada
8888	709	844	193		785 86	58 Rakt	āksha	
3889	710	845	194		788 87	59 Kröd	hana	
890	711	846	195		787-88 *788 89	60 Ksha		3 Jyčshtha
3891	712	847	196		789 90	1 Prab		1 . 1
3892	718	848	197		790-91	2 Viblu		11 Māgha
3893	714	849	198		791-92	3 Śukla		
3864	715	850	199	1	*792 93	4 Pram		
.89E	716	853	200		793-94	5 Prajä 6 Angu	•	8 Kārītīka

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	CC	ואוג	CNC	eme	NT OF THE			
Mean	SOLAR YPAR				MPAN LUNI SOLAR Y CIVIL DAY ON WILL	ear (mean su h Chaitra śu	VRISE OF THE	Kalı
Day and month, A D	Week-day	mer	umo u Mä nkiäi	Sha-	Day and month, A D	Week day	a (here = t, the index of the tithi)	
13	11	_	17		19	20	23	1
		II	M	s				
22 Mar (81)	4 Wod	3	40	30	13 Mar (72) .	2 Mon .	195 2912	3871
22 Mar (81)	5 Thur	9	52	39	2 Mai (61) .	6 Fra .	71 0141	3872
22 Mar (81)	6 Tu	16	4	48	21 Mar. (80) .	5 Thur	105 6965	3873
21 Mar (81)	0 Sat	22	16	57	10 Mar (70) .	3 Tues	820 0513	3874
22 Mar (81)	2 Mon	4	29	6	27 Feb (58)	O Sat .	195 7741	3875
22 Mar (81)	3 Tues	10	41	15	18 Mar (77)	6 F11	230 4566	3876
22 Mar (81)	4 Wod.	16	53	24	7 Mar (66)	3 Tues	108 1793	3877
21 Mar (81)	5 Thar	23	5	33	25 Feb (56)	1 Sun	320 5342	3878
22 Mar (81)	0 Sat	5	17	42	14 Mar (78)	6 F11	16 5846	3879
22 Mar (81)	1 Sun	11	29	51	4 Mar (68)	4 Wed .	230 9395	3880
22 Mar (81)	2 Mon	17	42	0	21 Fob (52)	1 Sun .	106 6622	8881
21 Mar ,81)	3 Tues	23	54	9	11 Mar (71) .	0 Sat	141 3446	3882
22 Mar (81)	5 Thur	6	6	18	28 Feb (59)	4 Wed .	17 0675	3883
22 Mar (81)	6 Fri	12	18	27	19 Mai (78) .	3 Tues	51-7499	3884
22 Mar (81)	0 Sut	18	80	86	9 Mar (68) .	1 Sun .	266 1047	3885
22 Mar (82)	2 Mon	0	42	45	26 Fob (57)	5 Thur.	141 8276	3886
22 Mar (81)	3 Tues	6	54	54	16 Mar (75)	4 Wed	176 5100	3887
22 Mar (81)	4 Wod	13	7	8	5 Mar (64) .	1 Sun .	52 2327	3888
22 Mar (81)	5 Thur	19	19	12	23 Feb (54)	6 Fn .	266 5876	3889
22 Mai (82)	0 Sat	1	31	21	13 Mar (73) .	5 Thur	301-2700	8890
22 Mar (81)	1 Sun	7	43	30	2 Mar (61)	2 Mon .	176 9929	8891
22 Mar (81) .	2 Mon	13	55	39	21 Mar (80)	1 Sun	211 6752	3872
22 Mar (81)	3 Tues	20	7	48	10 Mar (69)	5 Thur	87 3981	3893
22 Mar (82)	5 Thur	2	19	57	28 Feb (59)	3 Tues	301 7530	3894
22 Mar (81)	6 Fri	. 8	32	6	17 Mar (76)	1 San .	9997 8033 §	3895

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						CONC	JRRI	ENT YE	AR.		_	
		-	acha-	year 112					Jovian Sa	Myatsara	(Mean intercalated adhika) lunar
Kalı	Śaka	.	Chaitrādi Vikracia	Möshädi solar year in Bengal	K	ollam	A .	D	Southern system	Northern system		month
1	2	_ -	3	3a		4		5	6	7	-	8a
3896 3897	1	18	852 853	1	2			794 95 795-96	8 Bl	imukha . iära iran		4 Āshādha .
3898	1	19	851	' -	03		1	796 97 797 98			1	444
8899	1.	20	855	` \	04			797 98 798-99	10 Dhātrı			1 Chaitra .
8900	- 1	721 	85 85	1	206		١,	799 800		12 Bahudhānya .		
3901 3902	١	722 723	85	'\'	207		- 1	*800-01	l	ramāthın .	.	9 Mārgasīra
8902		724	1		208			801-02	14 V	'ıkrama	1	
390	1	725			209		1	802-03	15	Vrisha .		••
890	- I	726	3 8	61	210			803 04	16	16 Chitrabhânu .		6 Bhādrapada
890	6	72	7 8	362	211			*804-05	17	Subhānu	,	
39	07	72	: B	863	212		-	805-06	18	Tārana .	•	
89	80	72	29	864	213			806 0	7 19	Pārthıva		2 Varšākha
39	909	7	08	865	214	• }	1	807-0	20	Vyaya	•	
3	910	1 3	31	866	21	5 \	1	*808 0	9 21	Sazvajit	•	11 Māgha
	911	1	732	867	21	- 1		809-1	ł .	Sarvadhārın		•
	3912	١	733	868	21	1	1	810	1	Vırōdhın		
	3913	- 1	784	869	1	18		811-	1	Vikrita		7 Āśvina
	2914 3915	- 1	735 736	870	1	19		*812	{	5 Khara	•	• •
	3,10	- 1	737	871	- 1	20		813	1	6 Nandana .	•	4 Tabadha
	311	- 1	738	1	1	222		1		7 Vijaja	•	4 Āslīādha
	*191	8	7730	1	1	223		1		28 Jaya 29 Manmatha		12 Phälguna
	39	19	745	s 6	75	224		1		30 Durmukha .	•	. Ja chaigana
	30	20	74	1 8	76	225		1		31 Hēmalamba†		

^{† 22} Vilamba was suppressed by mean reckoning. By Brahma-Siddhānta "true" reckoning the year K Y 3921, A.D 819 20, was 32 "Vilamba," and 33 Vikārin was suppressed.

XC-contd

COMMENCEMENT OF THE													
MPAN	SOLAR TEAR.		Mran i uni solar i			Kalı							
Day and month, A D.	Weok-day.	Time of mean Mësha- samkränti	llar and month, A D	Wook day	a (here = t, the index of the tithi)								
13	14	17	19	20	23	1							
		H M S				····							
22 Mar (81)	0 Sat	14 44 15	7 Mar (66)	6 F11	212 1581	3896							
22 Mar. (81) .	1 Sun	20 56 24	24 Fob (55) .	3 Tues	87 8810	3897							
22 Mar (82) .	3 Tue:.	3 8 33	14 Mar (74) .	2 Mon	122 5683	3898							
22 Mar (81)	4 Wed .	9 20 42	3 Mar (62) .	6 F11 .	9998 2862§	8899							
22 Mar (81)	5 Thur.	15 32 51	21 Feb (52)	4 Wed	212 6410	3900							
22 Mar (81)	6 Fri	21 45 0	12 Mar (71) .	3 Tues	247 3234	3901							
22 Mar (62)	1 San	3 57 9	29 Feb (60) .	0 Sat	123 0463	3902							
22 Mar (81)	2 Mon	10 9 18	19 Mar (78)	6 Fri	157 7287	3903							
22 Mar (81)	3 Tues.	16 21 27	8 Mar (67) .	3 Tues	88 4515	3904							
22 Mar (81)	4 Wed .	22 33 36	26 Feb (57)	1 Sun	247 8064	3905							
22 Mar (82) .	6 Fr: .	4 45 45	16 Mar (76)	0 Sat	282 4888	3906							
22 Mar (81)	0 Sat.	10 57 54	5 Mar (64)	4 Wed	158 2115	3907							
22 Mar (81)	1 San .	17 10 3	22 Feb (53) .	1 Sun	33 9344	3908							
22 Mar (81)	2 Mon	23 22 12	13 Mar (72) .	O Sat .	68 6168	3909							
22 Mar (82)	4 11 ed	5 34 21	2 Mar (62)	5 Thur .	282 9716	8910							
22 Mar (81)	5 Thur	11 46 80	21 Mar (80)	4 Wed	317 6540	3911							
22 Mar (81)	6 Fn	17 58 39	10 Mar (69)	1 Sun	193 8769	3912							
23 Mar (82)	1 Sun	0 10 48	27 Feb (58)	5 Thur	69-0998	8913							
22 Mar (82) .	2 Mon	6 22 57	17 Mar (77) .	4 Wed	103 7821	8914							
22 Mar. (81)	3 Tues	12 35 6	7 Mar (66) .	2 Mon	318 1369	3915							
22 Mar (81)	4 Wed	18 47 15	24 Feb (55) .	6 I'm	193 8598	5916							
23 Mur (82)	6 Frı	0 59 24	15 Mar (74) .	5 Thur	228 5421	3917							
,22 Mar (82) .	0 Sat .	7 11 88	3 Mar (63)	2 Mon	104 2850	8918							
22 Mar (81)	1 Sun .	18 23 42	22 Mar (81)	1 Sun	138 9474	3919							
22 Mar. (81)	2 Mon.	19 85 51	11 Mar (70)	5 Thur	14 6703	3920							

Chaitra fakla 1 was suppressed

TABLE

				CONC	URRENT Y	EAR		
		krama.	solar year ın			Jorian Sa	MVATSARA	Mean interculated (adhika) lunar
Kalı	Saka	Chaitridi Vikrama	Mčshûdı sola Beugal	Kollam	A D	Southern system	Northern system	month
1	2	3	3a	4	5	6	7	84
3021	742	877	226		819-20	33 Pi	lārın .	9 Mārgasīra
3922	743	878	227		*820 21	34 Śā:	varın .	
3923	744	879	228		821-22	35 Pla	ıra	
3924	745	880	229		822-23	36 Śu	bhakrıt .	6 Bhādrapada‡
3925	746	881	230		823 24	37 Śā	bhana	
3926	747	882	231	1	*824 25	38 Kr	ōdhın	
3927	748	883	232	0-1	825 26	39 Viśvāvasu .		2 Varsākha
3928	749	884	233	1-2	826-27	40 Parābhaya		
3929	750	888	234	23	827-28	41 Pla	wanga	11 Māgha
8930	751	886	3 23	3-4	*828-29	42 Kī	laka .	
8931	752	88	7 23	4-5	829-30	43 Sa	umya .	
8932	753	88	8 23	7 56	830 31	44 Sā	dhārana	7 Āśvina
8933	1	₽ 88	9 23	8 6-7	831-32	45 V1	rõdhakrit .	
3934	''	5 89	0 23	9 7-8	*832-33	46 Pa	ırıdhās m	
3985	'	1	-	10 89	833 34	47 Pı	ramādin'.	4 Āshādha
3936	''			9 10	834 35	48 Ā1	anda .	
8987	1	- 1	- 1	10 11	835 36	49 R	ākshasa .	12 Phālguna
8938	1		ĺ	43 11-15	*836 37	50 A	nala .	
893 894	}	. 1		12-19	837-38	51 P.	ıngala .	.
39 <u>4</u>	- 1	į	- 1	45 13 14	1	52 K	ālay ukta	. 9 Mārgašīra
394	- []	1	- 1	45 14-1		•	ıddhā~thın	
394		- 1	1	47 15-1		1	audra	
394	1	- 1	. 1	18 16-1		1 00 2	urmatı	5 Srāvana .
394		l l	. }	19 17-1	1	1	andublu .	
			.01	250 18 1	9 843-44	57 R	adhırödg i-ın	

‡ See " Pemarks," p 215 above.

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COMMENCEMENT OF THE											
Mean	SOIAR YEAR				MEAN LUMI SOLAR CIVIL DAY ON WHI	lear (UFAN 1 ICH CHAITBA	SUN RISE OF THE SUD LA 1 ENDS)	ļ			
Day and month, A D	Week-day mean				Day and month, A.D	Week-day	a (here=t, the index of the tithi)	Kalı,			
13	14		17		19	20	23	1			
		Н	M								
23 Mar (82)	4 W ed.	1	48	0	1 Mar (60)	3 Tues	229 0250	3921			
22 Mar (82)	5 Thur	8	0	9	19 Mar (79)	2 Mon	263 7074	8922			
22 Mar (81)	6 Fri	14	12	18	8 Mar (67)	6 Frı	139 4313	8923			
22 Mar (81)	0 Sat	20	24	27	25 Feb (56)	3 Tues	15 1531	8924			
23 Mar (82)	2 Mon	2	36	36	16 Mar (75)	2 Mon	49 8855	3925			
22 Mar (82)	3 Tues	8	48	45	5 Mar (65)	0 Sat	264 1904	8926			
22 Mar (81)	4 Wed	15	0	54	22 Feb (53)	4 Wed	139 9132	8927			
22 Mar (81)	5 Thar	21	18	3	13 Mar (72)	3 Tues	174 5955	8928			
23 Mar (82)	0 Sat.	3	25	12	2 Mar (61) .	0 Sat.	50 3184	8929			
22 Mar (82)	1 Sun	9	87	21	20 Mar (80)	6 Frı	85 0009	3930			
22 Mar (81)	2 Mon	15	49	30	10 Mar (69)	4 Wed	299 3556	3931			
22 Mar (81)	3 Taes .	22	1	39	27 Feb (58)	1 Sun	175 0784	3932			
23 Mar (82)	5 Thur	4	13	48	18 Mar (77)	0 Sat.	209 7609	3983			
22 Mar (82)	6 Fr1	16	25	57	6 Mar (66)	4 Wed	85 4837	8934			
22 Mar (81)	0 Sat	16	38	6	24 Feb (55)	2 Mon	299 8385	8935			
22 Mar (81)	1 Sun.	22	50	15	14 Mar (78)	0 Sat.	9995 8889 §	3936			
23 Mar (82)	3 Tues	5	2	24	4 Mar (63)	5 Thur	210 2438	3937			
22 Mar (82)	4 Wed	11	14	33	22 Mar (82)	4 Wed.	244 9262	3938			
22 Mar (81)	5 Thur	17	26	42	11 Mar (70)	1 Sun	120 6490	8939			
22 Mar (81)	6 F11	23	88	51	28 Feb (59)	5 Thur	9996 3718 5	3940			
23 Mar (82) .	1 Sun	5	51	0	19 Mar (78)	4 Wed	81 0542	3941			
22 Mar (82)	2 Mon	12	3	9	8 Mar (68)	2 Mon	245 4090	3942			
22 Mar (81)	3 Tues	18	15	18	25 Feb (56)	6 Fri	121 1819	3943			
23 Mar (82) .	5 Thur .	0	27	27	16 Mar (75)	5 Thur	155 8143	3944			
28 Mar (82) .	6 Fri	6	89	86	5 Mar (61)	2 Mon	91 5372	3915			

[§] Chauna fukla I was suppressed.

TABLE

		 -	===:		CONCI	RRENT 1E	LAR		T	
		ma.	ar na				Jovian Sa	M\ ATSARA		A ^r ean intercylated
Kalı	Śaka	Chattrādı Vikrams.	Mēshādı solar year Bengal		Kollam	AD	Southern system	Northern system		adhıkn) lunar montli
1	2	3	$\neg \lceil$	3a	4	5	6	7		8a
8946	767	90	02	251	19 20	*844-45		tāksha .		· Vaišākha .
8947	768	9	08	252	20-21	845-46	59 Kri			
8948	769	1	04	253	21-22	846-47	60 Ks	•	1	D Pansha .
8949	770	1	05	254	22-23	847-48	1 Prabhava			•
3950	771		006	255	23 24	*848-49	2 Vibhaya			***
8951	772	1	907	256	24 25	849-50	3 Śukla		• •	7 Aśvina .
8952	778		808	257	25-26	850 51		4 Pramoda		•
8958	774	1	009	238	1	851-52	5 Prajapata .		-1	
8954 8955	77	1	910	259	1	*852-53		giras .		3 Jyeshtha
8956	77	- (911 912	260	1	858-54		īmukha -		• •
8957	77	- 1	918	261 262		854-55 855-56	8 Bl		1	2 Phälguna
8959	1	- 1	914	263	1	*856-57	9 Yı	•	ł	
3959	1 "	30	915	26		1	10 D	•		
8960		81	916	26	_	1]	ahudhānya	.	8 Kärttika .
3 963	- 1	82	917	26]	1 333 33	1	ramäthm	1	• •
896	2 7	83	918	28	87 85-36		ì	ikrama	.	F 0-2
896	8 7	34	919	26	36 3	1	1	risha .		5 Srāvana .
896	4	785	920	26	39 87-3	862 68	}	hitrabhanu	- 1	
896	35	786	921	2	70 88-3	868 64			.]	2 Vaišākha
896	· [787	922	2 2	71 89-4	0 *864 65				- valsakiii
89	ł	788	928	3 2	72 40-4	1 865 66	l e			10 Pausha
89	- 1	789	924	1	78 41-4	2 866-67	4			***
88	- 1	790	92	1	74 42-4		}	earvajit .	.	100
	70	791	92	6 2	75 48-4	4 868-69	22 8	Sarvadhārın		7 Aávina

XC-contd

Day and month, A.D	OLAR YEAR Week-day.	me			MEAN LUNI SOLAR CIVIL DAY ON WHI	YEAR (MEAN S IOH CHAITRA É	UNRISE OF THE	3
18		me			1	Kalı		
		Time of mean Mësha samkränti.		iësha	Day and month, A.D	Week-day	a (here=t, the index of the tethi)	
00.35	14		17		19	20	23	1
22 Mar (82) . 23 Mar (82) . 23 Mar (82) . 23 Mar. (82) . 22 Mar (82) . 22 Mar (81) 23 Mar. (82) . 23 Mar. (82) . 24 Mar. (82) .	0 Sat. 1 Sun 8 Tues 4 Wed 5 Thur. 6 Fri 1 Sun 2 Mon 8 Tues.	H 12 19 1 7 18 19 2 8	M 51 8 16 28 40 52 4 16 28	S 45 54 8 12 21 80 89 48 57	23 Feb (54) 13 Mar (76) 2 Mar (61) 21 Mar (80) 9 Mar (69) 27 Feb (58) 18 Mar (77) 7 Mar (66) 24 Feb (55)	0 Sat. 6 Fri 8 Tues 2 Mon 6 Fri 4 Wed. 3 Tues 0 Sat. 4 Wed	245 8919 280 5743 156 2972 190-9796 66 7024 281 0572 815 7897 191 4624 67 1858	3946 3947 3948 3949 3950 3951 3952 3958
22 Mar (81)	4 Wed	20	41	6	14 Mar (73)	3 Tues 1 Sun	101 8677	3955
23 Mar (82) 23 Mar (82) .	6 Fr: 0 Sat.	9	58 5	15 24	4 Mar (63) . 22 Mar (81)	6 Fr:	816 2225 12 2729	8956 8957
22 Mar (82) .	1 Sun	15	17	88	11 Mar (71)	4 Wed .	226 6278	3958
22 Mar (81)	2 Mon	21	29	42	28 Feb (59)	1 Sun .	102 3506	3959
28 Mar (82)	4 Wed	8	41	51	19 Mar (78)	O Sat.	187 0329	8960
28 Mar. (82) .	5 Thur	9	54	0	8 Mar. (67)	4 Wed.	12 7558	3961
22 Mar. (82) .	6 Fri.	16	6	9	26 Feb (57)	2 Mon.	227 1107	8962
22 Mar (81) .	0 Sat.	22	18	18		1 Sun	281.7930	3968
23 Mar (82)	2 Mon	4	30	27	5 Mar (64)	5 Thur.	187 5159	896 4
23 Mar (82)	8 Tues	10	42	86	22 Feb (53)	2 Mon	18-2387	396E
22 Mar (82)	4 Wod,	18	54	45	12 Mar (72)	1 Sun.	47 9211 262-2759	3966 3967
22 Mar (81)	5 Thur	23	6	54	2 Mar. (61)	6 Fr.	Ī	3968 3968
23 Mar (82)	O Sat.	5	19	8	21 Mar (80)	5 Thur 2 Mon	296·9584 172 6812	396p
28 Mar (82) 22 Mar (82)	1 Suu 2 Mon	11	81 48	12	10 Mar (69) 27 Feb (58)	6 Fn.	48 4039	297A

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						C	ONCI	JRR:	ent T	EAR				
	 		rama	Ī.	solar year in						Jovian Sa	MTATSARA	ın (adi	Mean terculated 11.1.a) lunar
Kalı	Ś	aka	Chartrada Vakrama		Mëshadı solut Benga	Kol	lam	A	D		Southern Northern system system			month.
1	1	2	3	\neg	8a	T	4		5		6	7	.	8a
8971	-	792	9	27	27	6	44-45		869-70		23 V1	rõdhın	•	
3972	1	793	9	28	27	7	45-4 6		870-71	1	24 V1	krita		
3973		794	۶ د	329	27	8	46-4	' \	871-72	:	25 K	hara	8	Jyështha .
8974	١	79	5 \ 9	980	2	79	47-4	В	*872-78	3	26 N	andana .		••
3 975	5	79	6	981	2	80	48-4	9	873-74	s \	27 Vijaja		12	Phäigona .
397	6	79	7	982	3 2	81	49 E	0	874-75		28 Jaya		1	
397	7	78	8	989	3 \ 3	282	50-	51	875-7	}				
397	18	79	99	98	4	283	51-	52	*876-7	77		Durmukha	1	Kärttika .
39	79	8	00	98	5	284	52-	58	877-	1		Hēmalamba .		•
89	80	- 1	301	98	36	285	53	54	878	1	32 Vilamba .			. <i>6</i> .
38	981	- 1	B02	9:	37	286		55	879-	· \		Vikārin .	1	5 Śrēvana .
-	982		803		38	287	1	-56	*880	- 1		Śārvarın .	1	***
_	988		804	}	989	288		3-57	881	1		Plava .	- [
	398 	- Ì	808	1	940	289	1	7-58	1	3-83		Śubhakpt	- {	1 Chartra .
	898	1	806 807	1	941	290 291	1	8-59		84		Śōbliana	- {	10 Pausha
	398 398	}	808	l	942 943	291		59 60 50 61	1	4-85 5-86		3 Krödhin 9 Viśvävasu	1	
		88	808	1	944	29	- 1	61-62	1	36 87		0 Parābhava		***
		989	81	ı	945	29	- 1	62 68	\	57-88		1 Playanga		6 Bhādrapada
	39	990	81	1	946	29	Ì	63 64	1	88-89		2 Kīlaka		•••
	3	991	81	2	947	1	- }	64-6	- {	89-90		13 Saumya .		***
	8	1992	81	13	948	2	97	65 6	1 8 B	90 91		14 Sādhārana		3 Jyështha
	:	8993	8	14	94) 2	89	BR F	37	391 -92		45 Virödhakrat	•	•••
	;	3994	- 1	15	95	0 2	99	67-6	68 -	892-93		46 Paridhävin		11 Māgha
	=	3993	8	316	95	1 1	300	68-	69	893 94		47 Pramādın .		

XC-contd.

						
	c	OMMENCEM	ENT OF THE			
Mean	SOLAB YEAR.		Mean Luni solar i Civil day on Whio	Kalı.		
Day and month,	Week-day	Time of mean Mesha- samkränti	Day and month, A.D	Week day	a (here=t, the index of the tithi)	
13	14	17	19	20	23	1
22 Mar (81) 23 Mar. (82)	3 Tues. 5 Thur.	H M S 23 55 30 6 7 39	17 Mar (76) . 7 Mar (66)	5 Thur 3 Tues .	83 0864 297 4412	3971 3972
23 Mar (82) .	6 Fri	12 19 48	24 Feb (55) .	0 Sat 6 Fri	178 1641 207 8464	3973
22 Mar. (82)	O Sat	18 31 57	14 Mar (74) .	3 Tues	207 8404 83 5693	3974 3975
23 Mar (82)	2 Mon	0 44 6 6 56 15	3 Mar. (62)	2 Mon	118 2517	3976
23 Mar (82) .	8 Tues	13 8 24	12 Mar (71)	O Sat	332 6065	8977
23 Mar (82)	4 Wed	19 20 33	29 Feb (60)	4 Wed	208 3293	3978
22 Mar (82)	O Sat.	1 32 42	19 Mar (78)	3 Tues	243 0118	8979
28 Mar (82) •	1 San	7 44 51	8 Mar (67)	0 Sat	118 7946	3980
23 Mar (82)	2 Mon	18 57 0	26 Fob (57)	5 Thu	333-0894	3981
22 Mar (82)	3 Tues	20 9 9	15 Mar (75)	3 Tues	29 1398	3982
23 Mar (82)	5 Thur .	2 21 18	5 Mar (64)	1 Sun .	248 4947	8983
28 Mar (82)	6 F11 .	8 33 27	22 Feb (53)	5 Thur	119 2175	3984
23 Mar (82)	O Sat.	14 45 36	13 Mar. (72)	4 Wed.	158 8998	3985
22 Mar (82)	1 Sun	20 57 45	1 Mar (61) .	1 Sun	29 6227	3986
23 Mar (82) .	8 Tues .	3 9 54	20 Mar (79) .	0 Sat	64 3052	3387
23 Mar (82) .	4 Wed	9 22 3	10 Mar (69)	5 Thur	278 6599	8988
23 Mar (82)	5 Thur .	15 34 12	27 Feb (58) .	2 Mon	154 3828	8989
22 Mar (82)	6 Fri	21 46 21	17 Mar (77)	1 Sun .	189 0652	8990
23 Mar. (82)	1 Sun .	3 58 80	6 Mar (65)	5 Thur	64 7881	3991
23 Mar. (82)	2 Mon	10 10 89	24 Feb (55) .	3 Tues	279 1428	8992
28 Mar. (82) .	8 Tues .	16 22 48	15 Mar (74)	2 Mon .	318 8252	3993
22 Mar. (82)	4 Wed	22 34 57	8 Mar. (68) .	6 Fri	189 5481	8994
23 Mar. (82)	6 Fri	4 47 6	22 Mar. (81)	5 Thur	224 2304	3995
	<u> </u>	<u> </u>				

				CONCU	RRENT 11	AR		
		krama.	solar year ın			JOVIAN SA	Miatrana.	Fran Intercalated (adheka) lanar
Kalı	Šaka.	Chartrādı Vıkrama.	Mēshādı sola Bongal	Kollam	AD	Southern system	Northern system	mon*h
1	2	3	3a	4	5	6	7	8a
8996 8997	817 818	952 953	801 802	69 70 70 71	894-95 895 96	48 An 49 Rai	kshasa	8 Kärttila
3998 3999	819 820	954	803	71-72	*896-97	50 An		
4000	821	955 956	804 805	72-73	897-98 898-99	51 Pir		
4001	822	957	806	74-75	899-900		ilayukta	5 S-avana
4002	828	958	807	75 76	*900 01	51 Ra	-	
4008	824	959	308	76-77	901 02	55 Da	•	1 Chaitra
4004	825	960	809	77-78	902 03	1	ındubhı .	
4005	828	961	810	78-79	903-04	57 Ru	ıdhırödgärin† .	10 Pausha
4006	827	962		79 80	*904-05	58 Raktāksha	59 Krödhana	
4007	828			80 81	905 06	59 Krödhana	60 Kshaya	
4008	829		""		906-07	60 Kshaya	1 Prabhava	6 Bhadrapada
4009 4010	830 831	-	1	V- 00	907 08	1 Prabhaya	2 Vibhara	
4011			"		*908-09	2 Vibhaya	. 8 Śukla	
4012				02.00	909-10	8 Śukla	4 Pramoda	3 Jyështha
4018			1 -	"	Į.	4 Pramoda	5 Prajāpatı	
4014	- 1	1		1	į	5 Prajāpati	6 Augiras .	11 Māgha
4018	83	8 97		1	1	8	7 Śrīmukha	• • • •
4016	83	7 97	2 82	ı	l l	,	9 Yuvan	
401	1	1	8 82	2 90-91	915-16	I.	10 Dhātra	8 Kärttika
401	_				*916-17	1	11 Iśvara	
401 402	_	1 -	- i -	1			. 12 Bahudhānya	4 Ashādha
	0 84	1 97	76 85	25 93 94	918-19	12 Bahudhānya	13 Pramäthin	-4 spenistring

^{† 58} Raktāksha was suppressed in the north By southern reckoning there was no suppression, and there has been none since. By Brahma-Siddhāsta "true" reckoning K Y 4006, A D. 904 05, was 58 Raktāksha, 59 Krōdhana

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		COMMENCE	MENT OF THE			
Mean	SOLAR YEAR		MPAN LUNI SOLAR Y CIVIL DAY ON WHIC	EAR (MEAN SU OH CHAITRA S	INBISE OF THE UKLA 1 ENDS)	Kalı
Day and month, A D	Week-day	Tuno of moan Mõsha- samkränti	Day and month,	Week-day	a (here=t, the index of the tithi)	
13	14	17	19	20	23	1
23 Mar (82) 23 Mar (82)	1 0	H M S 10 59 15 17 11 24	11 Mar (70) . 1 Mar (60) .	2 Mon 0 Sat.	99 9583 314 3081	3996 11997
22 Mar (82)	2 Mon	23 23 33	18 Mar (78)	5 Thur	10 3584	3998
23 Mar (82)	4 Wed	5 35 42	8 Mar (67)	3 Tues	224 7183	8999
23 Mar (82)	5 Thur	11 47 51	25 Feb (56)	O Sat.	100 4362	1000
23 Mar (82)	6 Fra	18 0 0	16 Mar (75)	6 Fr	135 1186	4001
23 Mar (83)	1 Sun	0 12 9	4 Mar (64)	3 Tues .	10 8415	4002
23 Mar (82)	2 Mon	6 24 18	22 Feb (58) .	1 Sun	225 4963	4003
23 Mar (82)	8 Tues	12 36 27	13 Mar (72) .	O Sat	259 8786	4004
23 Mar (82)	4 Wod	18 48 36	2 Mar (61)	4 Wed	135 6015	4005
23 Mar (83)	6 Frı	1 0 45	20 Mar (80)	3 Tues	170 2839	4006
23 Mar (82)	0 Sat.	7 12 54	9 Mar. (68)	0 Sat	46 0067	4007
23 Mar (82)	1 Sun.	13 25 3	27 Feb (58)	5 Thur	260 3616	4008
23 Mar (82)	2 Mon	19 37 12	18 Mar (77)	Wed.	295 0440	4009
23 Mar (83)	4 Wed	1 49 21	6 Mar (66)	Sun	170-7668	4010
23 Mar (82)	5 Thar	8 1 80	23 Feb (54) 5	Thur	46 4896	4011
23 Mar (82)	6 Frz	14 18 39	14 Mar (73)	Wed.	81 1720	4012
23 Mar (82)	0 Sat.	20 25 48	4 Mar (63) 2	Mon	295 5269	4018
23 Mar (83)	2 Mon	2 37 57	22 Mar (82)	Sun .	330 2092	4014
23 Mar (82)	3 Tues	8 50 6	11 Mar (70) 5	Thur	205 9321	4015
23 Mar (82)	4 Wod	15 2 15	28 Feb (59) . 2	Mon	81 6549	4016
23 Mar (82)	5 Thur		` '	}	116 8878	4017
23 Mar (83)	0 Sat	3 26 33			880 8921	4018
23 Mar (82)	1 Sun				206 4150	4019 4090
23 Mar (82)	2 Mon	15 50 51	16 Mar (75) 2	Mon	241-0974	40%
						2 =

	CONCURRENT YEAR.													
	4.	Vıkrama.	solar year ın			JOVIAN SAM	(Vatsaba.	Mean intercalated (addida) lunar						
Kalı	Śaka	Chasträdt V1	Mēshādı solu Bengal	Kollam	A.D.	Southern sys*em	Northern system	month						
1	2	3	8a	4	5	6	7							
					-]							
402£	842	977	826	94-95	919-20	13 Pramāthm .	14 Vikrama .							
4022	843	978	827	95-96	*920 21	14 Vikrama .	15 Vrisha	1 Chaitra .						
4028	844	979	328	96-97	921-22	15 Vrisha	16 Chitrabhānu							
4024	845	980	829	97-98	922-28	16 Chitrabhānu	17 Subhānu .	9 Mārgasīra .						
4025 40 26	846	981	880	98-99	928-24	17 Subhānu	18 Tārana .							
4027	847 848	982	881	99-100	*924-25	18 Tārana	19 Pārthīva	•••						
4028	849	983	832	100-01	925-28	19 Pārthīva	20 Vyaya	6 Bbädrapada .						
4029	850	984	888	101-02	926-27	20 Vyaya	21 Sarvajit .	•••						
4030	851	986	834 835	102-08	927-28	21 Sarvajit	22 Sarvadhārin .	•••						
4031	852	987	836	103-04	*928 29	22 Sarvadhärin	23 Vırôdhin	2 Vaišālha .						
4082	858	988	897	104-05 105-06	929-30	23 Virödhin .	24 Vikrita	•••						
4088	854	989	888	108-07	930-31	24 Vikrita .	25 Khara	11 Māgha						
4084	855	990	829	107-08	931-32	25 Khara	26 Nandana .	***						
4085	858	991	840	108-09	*932 33 933-84	28 Nandana	27 Vijaya .	•••						
4036	857	992	841	109-10	934-35	27 Vijaya	28 Jaya .	7 Aśvina .						
4087	858	998	842	110 11	935-88	28 Jaya	29 Manmatha	***						
4038	859	994	843	111-12	*988-87	29 Manmatha	30 Durmukha	• (
4088	860	995	844	112-18	937-38	30 Durmukha- 31 Hēmalamba	31. Hēmalamba	4 Āshādha						
4040	861	996	845	118-14	988-89	32 Vilamba	82 Vilamba	•						
4941	862	997	846	114-15	1	88 Vikārin	38 Vikārin	• •						
4042 4048	868	998	847	125-16	*940-41	84 Serverin	34 Śārvarın 35 Plava	1 Chartra.						
5044	864	998			941-42	85 Plays	36 Subhakrit	0.35*****						
4146	866	1000	1	117-18		36 Subhakut	87 Köbbana	9 Märgasira .						
-	, •••	1001	850	118-19	949-44	37 Sobliana	88. Krödhin	•••						

XC-contd.

			ENT OF THE	CEM	MMLN	c	
Ka]ı.			Mban Luni-Solar Y Civil day on Whic			OLER YBAR	Mean i
	a (here-t, the index of the tithi)	Week-day.	Day and month, A.D	elin-	Time ncan Mi samkrā	Week-day	Day and month, A.D
1	23	20	19		17	14	13
4021 4022 4023 4024 4025 4026 4027 4028 4029 4030 4031 4032 4033	116 8202 831 1750 27 2254 241·5802 276 2626 151·9855 27 7084 62 3907 276 7455 152 4684 187 1507 62 8736 97 5560 811·9109	6 Fri 4 Wed 2 Mon 0 Sat. 6 Fri 3 Tues. 0 Sat. 6 Fri 4 Wid. 1 Sun 0 Sat. 4 Wed 3 Tues. 1 Sun	5 Mar (64) 23 Feb (54) 12 Mar. (71) 2 Mar (61) 21 Mar (80) 9 Mar (69) 26 Feb (67) 17 Mar (76) 7 Mar. (66) 24 Feb (55) 14 Mar. (73) 8 Mar (62) 22 Mar. (81) 11 Mar. (71)	S 0 9 18 27 36 45 54 3 12 21 30 89 48 57	H M 222 3 4 15 10 27 16 39 22 51 5 3 11 15 17 28 23 40 5 52 12 4 18 16 0 28 6 40	3 Tacs . 5 Thur 6 Fri 0 Sat . 1 Sun 3 Tacs 4 Wed. 5 Thur. 6 Fri 1 Sun 2 Mon 3 Tacs 5 Thur	23 Mar (82) 23 Mar (83) 23 Mar (82) 23 Mar (82) 23 Mar (82) 23 Mar (83) 23 Mar (82) 23 Mar (82) 23 Mar (82) 23 Mar (82) 23 Mar (82) 23 Mar (82) 23 Mar (82) 24 Mar (83) 25 Mar (82) 26 Mar (83) 27 Mar (83)
4035 4036	187 6386 222 31 6 1	5 Thur.	28 Feb. (59) 19 Mar (78)	6	12 53 19 <i>5</i>	0 Sat. 1 Sun	23 Mar (82) . 23 Mar. (82) .
4037	98 0389	1 Sun	8 Mar. (67)	Ī	1 17	3 Tues	24 Mar (83)
4038	812 3938	6 Fri .	26 Feb. (57)	38	7 29	4 Wed.	23 Mar (83) .
4039	8 4441	4 Wed	15 Mar. (74)	42	13 41	5 Thur.	23 Mar (82)
4040	222:7990	2 Mon .	5 Mar (64) .	51	19 53	6 Fri.	23 Mar (82) .
4041	98 5218	8 Fn.	22 Feb (58)	0	2 '6	1 Sun	24 Mar (83)
4042	188 2042	5 Tbur	12 Mar. (72) .	9	8 18	2 Mon .	23 Mar (83) .
4048	8-9270	2 Mon	1 Mar. (60) .	18	14 80	3 Tues	28 Mar (82)
4044	4 8·609 4	1 Sun.	20 Mar. (79)	27	20 42	4 Wed	23 Mar. (82)
4045	257-9643	6 Fri	10 Mar. (69)	36	2 54	6 Fr.	24 Mar (83) .

	CONCURRENT YEAR												
		krama	ır yoar ın			Joyian Sai	IVATSARA	Mean intercalated (adhika) lunar					
Kalı	Śale	Chattrādı Vıkrama	Meshida solar Bengal	Kollam	A.D	Southern system	Northern system	month					
1	2	3	3 a	4	5	6	7	8a					
4046	867	1002	351	119 20	*944-45	38 Krödhın	39 Viśvāvasu	6 DL:33-					
4017	868	1003	352	120 21	945-46	39 Viśvāvasu	40 Parābhaya	6 Bhādrapada .					
4048	869	1004	353	121-22	946-47	40 Parābhaya	41 Playanga	•					
4019	870	1005	354	122-23	947-48	41 Plavanga	42 Kilaka	2 Vaišākha					
4050	871	1006	855	123-24	*948-49	42 Kīlaka	43 Saumya	2 msana .					
4051	872	1007	356	124-25	949 50	43 Saumya	44 Sādhārana	11 Mäghh					
4052	873	1008	357	125-26	950 51	44 Sādhārana	45 Virodhakrit						
4053	871	1009	858	126-27	951-52	45 Virödhakrit	46 Paridhāvin	·					
4051	875	1010	359	127-28	*952-53	46 Paridhāvin	47 Pramādin	7 Āśvina					
4055	876	1011	360	128-29	953-54	47 Pramādın	48 Ānanda						
4056	877	1012	361	129 30	954-55	48 Ananda	49 Rālshasa	• •					
4057	878	1013	1 002	130 31	955-56	49 Rālshasa	50 Anala	4 Āshādha .					
4058	879	1014	1	131-32	*956-57	50 Anala	51 Pingala						
1000	880	1	1	132-33	957-58	51 Pingala	52 Kālay ukta	12 Phālguna					
4061	851	1016		133 34	958-59	52 Kālayukta	53 Siddhärthin	•					
4062	853 853		1	1 -02-00	959 60	53 Siddhärthin	54 Raudra						
1053	-	i	1		*960-61		55 Durmatı	9 Mārgasīra					
4/64	1	j	1	1 0.	961-62		56 Dundabhı .						
4rv 3	l l	1	i	1 -0. 00			57 Rudhırödgärın						
400	I		1	1 ""		i samurouguini	58 Raktāksha	5 Srāvana					
\$0°	RG	9 102	1000 000		}		59 Krōdhana						
4/x*	/X'S S-2 2004 570		1		60 Kshaya								
415	~	1	37	142-43	1	1	1 Prabhava	2 Varsākha .					
· 7	0 6	1 102	37	5 143.44	3		2 Vibhava 3 Sakla	10 Pausha .					

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COMMENCEMENT OF THE												
Mean so	OLAR YFAR,				Mean luni soi ar civil day on wh	YPAR (MEAN S	BUNRISF OF THE SULLA 1 ENDS)	Kalı.				
Day and month, A.D	Week-day	me	lime un M umki	ēsha-	Day and month, A D	Week day	a there := t, the index of the tithi)					
13	14		17		19	26	23	1				
		H	M	s								
23 Mar (83)	0 Sat.	9	6	45	27 Feb (58)	3 Tue:	183 6871	4016				
23 Mar (82)	1 Sun	15	18	54	17 Mar (76)	2 Mon	168 3695	4047				
23 Mar (82)	2 Mon	21	31	3	6 Mar (65)	6 Fri	44 0923	4018				
24 Mar (83) .	4 Wed .	3	43	12	24 Feb (55)	4 Wod	258 4471	4049				
23 Mar (83)	5 Thur	9	55	21	14 Mai (74)	3 Тпоз	293 1295	4050				
23 Mar (82)	6 Fri	16	7	30	3 Mar (62)	0 Sat	168 8524	4051				
23 Mar (82)	0 Sat	22	19	39	22 Mar (81)	6 Fri	203 5348	4052				
24 Mar (83)	2 Mon	4	31	48	11 Mar (70)	3 Tuos	79 2576	4053				
23 Mar (83)	3 Tues	10	43	57	29 Feb (60)	1 San	293 6125	4054				
23 Mar (82)	4 Wed	16	56	6	19 Mar (78)	0 Sat	328 2949	4055				
23 Mar (82)	5 Thur	23	8	15	8 Mar (67)	4 Wed	201 0176	4056				
24 Mar (83)	0 Sat	5	20	24	25 Feb (56)	1 Sun.	79 7 105	4057				
23 Mar (83)	1 Sun	11	32	83	15 Mar (75)	0 Sat	114 4229	4058				
23 Mar (82)	2 Mon	17	44	42	5 Mar (64)	5 Thur	328 7778	4059				
23 Mar (82) .	3 Tues	23	56	51	23 Mar (82)	1 Sun	24 8281	4060				
24 Mar (83)	5 Thur	6	9	0	13 Mar (72)	1 Sup .	239 1830	4061				
23 Mar (83)	6 Fri	12	21	9	1 Mar (61) .	5 Thur	114 9058	4062				
23 Mar (82)	0 Sat	18	33	18	20 Mar (79)	4 Wed	149 5881	4063				
24 Mar (83)	2 Mon	0	45	27	9 Mar (68)	1 Sun	25 3110	4064				
24 Mar (83)	3 Tues	6	57	36	27 Feb (58)	6 Fra .	239 6659	4065				
23 Mar (83) .	4 Wed	13	9	45	17 Mar (77)	5 Thur	274 3453	4066				
23 Mar (62) .	5 Thur	19	21	54	6 Mar (65)	2 Mon.	150.0710	4067				
24 Mar. (83)	0 Sat	1	34	3	23 Fob (54)	6 Fr: .	25-7939	4068				
24 Mar (83)	1 Sun	7	46	12	14 Mar (73)	5 Thur	60 4763	4069				
23 Mer (83)	2 Mon	13	б8	21	3 Mar (63)	3 Tues	274 8311	4070				

TABLE

				CON	CURRENT	YEAR		
	4.	ıkrama	ar year in			Jovian Sa	AHABTAVN	Mean intercalated (adhika) lunar
Kalı	Śaka	Chartrādı Vıkrama	Mëshādı solar Bengal	Kollam	A.D	Southern system	Northern system	month
1	2	3	8a	4	5	6	7	8a
4071	892	1027	876	144-45	969-70	3 Śukla	4 Pramoda	
4072	898	1028	877	145-46	970-71	4 Pramöda	Ì	••
4073	894	1029	378	146-47	971-72	5 Prajāpati	5 Prajāpati	***
4074	895	1030	879	147-48	*972 73	6 Angaras	6 Angiras	7 Asvina
4075	898	1031	380	148 49	978-74	7 Śrīmukha	7 Srimulha	•
4076	897	1032	381	149-50	974-75	8 Bhāva	8 Bhāva	••
4077	898	1033	382	150-51	975-76	9 Yuvan	9 Yuvan	4 Āshādha .
4078	899	1034	383	151-52	*976-77	10 Dhātri	10 Dhātm	
4079	900	1035	384	152-53	977-78	11 Isvara	11 Invara	12 Phālgana
4080	901	1036	385	158-54	978-79	12 Bahudhānya	12 Bahudhanya	
4081	902	1037	386	154-55	979 80	18 Pramathin	13 Pramāthm	•
4082	908	1038	387	155-56	*980-81	14 Vikrama	14 Vikrama	9 Mārgasīra
4083	904	1039	888	156-57	981-82	15 Vrisha	15 Vrisha	
4084	905	1040	889	157-58	982-83	16 Chitrabhanu	16 Chitrabhānu 17 Subhānu	
4085	908	1041	390	158-59	983-84	17 Subhānu	18 Tāraņa	5 Srāvana .
4086	907	1042	391	159-60	*984-85	18 Tārana	19 Pārthīva	
4087	908	1043	392	160-61	985-86	19 Pārthiva	20 Vyaya	
4088	909	1044	393	161-62	986 87	20 V _{yaya}	21 Sarvajit	2 Vaišākha
4089	910	1045	894	162-68	987-88	21 Sarvajit	22 Sarvadhārin	
4090	911	1048		163-64	* 988-89	22 Sarvadhārm	23 Virōdhin	10 Pausha
4091 4092	912			164 65	982-90	2	24 Vikrita †	***
4093	914	1	1	165-66	990 91	24 Vikrita	28 Nandana	7 Asvina
4034	914		1	1	991 92	25 Khara	27 Vijaya .	
4005			1	1	*992-93	26 Nandana	28 Jaya	411
		1	1	1	1	27 Vijays	29 Manmail	3 Jyështha

mean reckoning in the north by the Brahma-Siddhanta system, whether calculated by "true" or

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	CO	MMENCEMEN	T OF THE			1
Mea	SOLAR YEAR.		Mean luni-solar oi\il day on wh	TEAR (MEAN 8 IOH CHAITBA É	UNRISH OF THE UKLA 1 ENDS)	Kali.
Day and month, A D	Wook-day	Time of mean Mësha- samkranti	Day and month, A D	Week-day.	a (here = t, the index of the teths)	
13	14	17	19	20	23	1
23 Mar (82) .	3 Tues	H M S 20 10 30	22 Mar (81)	2 Mon	309 5185	4071
24 Mar (83)	5 Thur	2 22 39	11 Mar (70)	6 Fr:	185 2364	4072
24 Mar (83)	6 Fr	8 84 48	28 Feb (59)	3 Tues	60 9598	4073
23 Mar (63)	0 Sat	14 46 57	18 Mar (78)	2 Mon	95 6416	4074
23 Mar (82)	1 Sun	20 59 6	8 Mar (67)	O Sat.	309 9964	4075
24 Mar. (83)	3 Tues.	3 11 15	25 Feb (56)	4 Wed.	185-7198	4076
24 Mar (83)	4 Wed	9 23 24	16 Mar (75)	3 Tues	220 4016	4077
23 Mar (88)	5 Thur	15 35 33	4 Mar · (64)	0 Sat.	96 1245	4078
23 Mar (82)	6 Fm	21 47 42	23 Mar (82)	6 Fri .	180 8069	4079
24 Mar (83)	1 Sun	3 59 51	12 Mar (71)	3 Tues .	6 5298	4080
24 Mar (83)	2 Mon	10 12 0	2 Mar (61)	1 Sun	220 8845	4081
23 Mar (83)	3 Tues	16 24 9	20 Mar (80)	O Sat	255 5669	4082
23 Mar (82) .	4 Wed.	22 36 18	9 ,Mar. (68)	4 Wed	191 2898	4088
24 Mar (83)	6 Fri	4 48 27 2	28 Feb (57)	1 Sun.	7 0127	4034
24 Mar_(83) .	0 Sat.	11 0 36 1	17 Mar (76)	D Sat.	41 6950	4085
23 Mar (83)	1 Sun.	•		Thur .	256 0499	4086
23 Mar. (82)	2 Mon	1	3 Feb (54) 2	Mon .	181-7727	4087
24 Mar (83)	4 Wed	1	4 Mar (73)	Sun.	166 4 550	4088
24 Mar (88) .		l l	1	Thur .	42 1779	4089
23 Mar (83)	i	1		Wod .	76 8603	4090
24 Mar (88) .	1 Sun		, ,	1	91 2152	4091
24 Mar (83)	2 Mon.	Ì		j	66 9898	4092
24 Mar (83) .	ſ	1		j	01-6204	4093
23 Mar (83)			i	. 1	77 8482	4004
24 Mar (83)	6 Fn	1 2 6 25	5 Feb (56) . 0	Sat 2	01-6980	4095

TABLE

				CONC	URRENT 1	EAR				
Kalı.	Saka	/ıkrama.	solar year in	Kollam	A.D	JOVIAN SA	Minatera (Minatera)	Menn interculate l - (adhika) lunar unonth		
Killi.	SEKE	Chastrādı Vıkrama.	Mēshādı so Bengal	Konam	A.U	Southern system	Northern system	montn		
1	2	3	3a	4	5	6	7	8a		
4096	917	1052	401	169-70	994-95	28 Jaya	30 Durmukha	.,,		
4097	918	1053	402	170 71	995 96	29 Manmatha	31 Hömalamba	12 Paālguna		
4098	919	1054	403	171-72	*996-97	30 Durmukha	32 Vilamba			
4099	920	1055	404	172-73	997-98	31 Hēmalamba	33 Vikārin .			
4100	921	1056	405	178 74	995-99	32 Vilamba	34 Śārvarın	8 Kärttika .		
4101	922	1057	406	174 75	999 1000	33 Vikārin	35 Plava			
4102	923	1058	407	175-76	*1000 01	34 Śārvarın	36 Śabhakrit			
4103	924	1059	408	176 77	1001-02	35 Plava	37 Śōbhana	5 Śrāvana		
4104	925	1060	409	177-78	1002-03	36 Śubhakrit	38 Krödhin			
4105	926	1001	410	178-79	1008 04	37 Śōbhana	39 Vistātasu			
4106	927	1062	411	179 80	*1004-05	38 Krōdhın	40 Parābhava	1 Chaitra		
4107	928	1063	412	180 81	1005-06	89 Visvāvasu	41 Plavanga	,		
4108	929	1064	413	181-82	1006-07	40 Parābhava	42 Kilaka	10 Pausha .		
4109	980	1065	414	182-83	1007-08	41 Plavanga	43 Saumya			
4110 4111	931	1066	415	183 84	*1008 09	42 Kīlaka	44 Sādhārana	•••		
4112	932	1067	416	184 85	1009-10	43 Saumya .	45 Virödhakrit	7 Asvinat		
4118	934	1068	417	185 86	1010-11	44 Sādhārana	46 Parıdhāvın			
4114	985	1069	418	186-87	1011-12	45 Vırödhakınt	47 Pramādın			
4115	986	1071		187-88	*1012-18	46 Parıdhāvın	48 Ānanda	3 Jyështha		
4116	937	1072	420	188-89	1018-14	47 Pramādin	49 Rālshasa			
4117	938	1	}	189-90	1014-15	48 Ananda	50 Anala	12 Phälguna		
4118	929	1	1	1	1015 16	49 Rākshasa	51 Pingala			
4119	940	1		1	1	50 Anala	52 Kālayukta .			
4129	941	ł		1	1017-18	51 Pıngala . 52 Kālayukta	58 Siddharthm	8 Kārttika		
† See "Remarks," p 215 above										

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	C	OMN	EN	CEM	ENT OF THE			
Mean	SOLAR YRAR				Mean Ludi-solar Civil day on wh	YEAR (MEAN S ICH CHAITEA S	UNRISE OF THE UNLA 1 FNDS)	Kalı
Day and month, A D	Wook-day.	Time of mean Mēsha- samkrānti			Day and month, A D	Week-day	a (here = t, the index of the tithe)	
13	14		17		19	20	23	1
24 Mar (83) 24 Mar (83) 23 Mar (83) 24 Mar (83) 24 Mar (83) 24 Mar (83) 23 Mar (83) 24 Mar (83) 24 Mar (83) 24 Mar (83) 24 Mar (83) 24 Mar (83) 24 Mar (83) 24 Mar (83) 24 Mar (83) 24 Mar (83) 24 Mar (83)	O Sat 1 Sun 2 Mon 4 Wed 5 Thur 6 Fr: 0 Sat 2 Mon 3 Tues 4 Wed. 5 Thur 0 Sat. 1 Sun 2 Mon 3 Tues	H 7 13 19 1 8 14 20 2 8 15 21 3 9 15 22	M 14 26 38 50 2 15 27 39 51 3 15 27 40 52 4	S 15 24 38 42 51 0 9 18 27 36 45 54 3 12 21	16 Mar (75) 5 Mar (64) 23 Mar (83) 12 Mar (71) 2 Mar (61) 20 Mar (79) 9 Mar (69) 26 Fob (57) 17 Mar (76) 6 Mar (65) 24 Feb (55) 14 Mar (73) 3 Mar (62) 22 Mar (81) 10 Mar (70)	6 Fri 3 Tues 2 Mon 6 Fri 4 Wed 2 Mon. 0 Sat 4 Wed 3 Tues 0 Sat 5 Thur 4 Wed 1 Sun 0 Sat 4 Wed	326 3804 202 1033 236 7856 112 5085 326 8633 22 9136 237 2685 112 9914 147 6737 23 3966 237 7514 272 4338 148 1566 182 8390 58 5618	4096 4097 4698 4699 4100 4101 4102 4103 4104 4105 4106 4107 4108 4109 4110
24 Mar (83) 24 Mar (83)	5 Thur 6 Fri	10	16 28	30 39	28 Feb (59) 19 Mar (78)	2 Mon . 1 Sun	272 9167 307 5991	4111 4112
24 Mar (83)	0 Sat	16	40	48	8 Mar (67)	5 Thur	183 3219	4113
23 Mar (83)	1 Sun	22	52	57	25 Feb (56)	2 Mon .	59 0447	4114
24 Mar (83)	3 Tues	5	5	6	15 Mar (74)	1 Sun	93 7270	4115
24 Mar (83)	4 Wed	11	17	15	5 Mar (64)	6 Fri	808 0820	4116
24 Mar (83)	5 Thur	17	29	24	23 Mar (82)	4 Wed	4 1323	4117
23 Mar (83) .	6 fr.	23	41	33	12 Mar (72)	2 Mon	218 4872	4.18
24 Mar (83) .	1 Sun	5	53	42	1 Mar (60)	6 Fei	94 2100	4119
24 Mar (83)	2 Mon	12	5	51	20 Mar (79) .	5 Thur	128 6024	4120
		===	==					0 1/

				CONC	URRENT Y	ZEAR.		
Kalı	Śaka	Chaitridi Vikrama.	S 1	Kollam	A.D	JOVIAN SA Southern system	Northern system	Mean intercalated (adhika) lunar month
		Cha	Meshādı Bengal			ay brom	oy brom	
1	2	8	34	4	5	6	7	82
4121 4122 4123	942 943 944	1077 1078 1079	426 427	194 95 195 96	1019-20 *1020 21	53 Siddhärthin 54 Raudra	55 Durmatı . 56 Dundubhı	5 Śrāvans .
4124	945	10/9	428 429	196-97	1021-22	55 Durmatı .	57 Rudhirödgärin .	
4125	946	1081	430	198 99	1022-23	56 Dundubhi 57 Rudhirödgārin	58 Raktāksha 59 Krādhans	
4126	947	1082	431	199-200	*1024-25	58 Raktāksha	59 Krõdhana 60 Kshaya	1 Chartra .
4127	948	1088	432	200-01	1025-26	59 Krödhana	1 Prabhava	10 Pausha
4128	949	1084	433	201-02	1028-27	60 Kshaya	2 Vibhava	
41,29	950	1085	434	202-03	1027-28	1 Prabhava	8 Śukla	
4180 4181	951	1086	435	203-04	*1028-29	2 Vidhava .	4 Pramôda	6 Bhâdrapada
4182	953	1087	436	204-05	1029-30	8 Śukla .	5 Prajāpati	
4183	954	1089	437	205-06 206-07	1030-31	4 Pramoda .	6 Anguras	`
4184	955	1090	439	200-07	1031-32	5 Prajāpati	7 Śrimukha .	3 Jyêshtha
4185	956	1091	440	208-09	*1032-33 1033-34	6 Anguras 7 Śrīmukha	8 Bhāva	
4188	957	1092	441	209-10	1034-85	8 Bhāva	9 Yuvan	11 Mägha
4187	958	1093	442	210-11	1035-86	9 Yuvan	10 Dhātri	. 1
£18 8	959	1094	443	211-12	ì	10 Dhātra	11 Isvara	
A189	960) 10શ	444	212-13	i	11 Isvara	12 Bahudhānya 13 Pramahin	8 Kārttika
4140	1	1		218-14	1038-39	1	14 Vikrama	[
4141	. 1		1	214-15	1039-40	1	15 Viisha	}
-4]4: 4]4:		1		1			16 Chitrabhanu	4 Āshādha .
416	}		.	1	1	,	17 Subhānu	"
414	. \	6 110	- {·	1 -0. 20	1		18 Tāraņa 19 Pārthiya	1 Chartra
							Lariniva	

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			11111	MOI	MENT OF THE			
Mean	SOLAR YEAR				MIAN LUNI SOL CIVIL DAY ON W	AR YEAR (MEAN) VIIICH CHAITRA	SUNRISE OF THE SUKLA 1 ENDS)	Kalı
Day and month, A D	Week-day	Time of mean Misha- samkränti			Day and month A D	Week day	a (here = t, the index of the tithi)	
13	14		17	7	19	20	23	1
24 Mar (83)	3 Tues	II 18			9 Mar (68)	2 Mon	4 6131	47.07
21 Mar (84)	5 Thur	0	30	9		0 Sat	218 9701	4121 4122
21 Mar (83)	6 lm	6	42	18	17 Mar (76)	6 Fr	258 6525	4123
24 Mar (83)	0 Sat	12	51	27	6 Mar (65)	3 Tues	129 3753	4121
21 Mar (83)	1 Sun	19	6	36	23 Feb (54)	0 Sat	5 0981	4125
24 Mar (84)	3 Tues	1	18	45	18 Mar (78)	6 Fr:	39 7806	4126
24 Mar (83)	4 Wed	7	30	54	3 Mar (62)	4 Wed	254 1354	4127
24 Mar (83)	5 Thur	13	43	3	22 Mar (81)	3 Tues	288 8177	4128
24 Mar (83)	6 Pri	19	55	12	11 Mar (70)	0 Sat	164 5406	4129
24 Mar (84)	1 Sun	2	7	21	28 Feb (59)	4 Wed	40 2635	4130
24 Mar (83)	2 Mon	8	19	80	18 Mar (77)	3 Tues	74 9458	4131
24 Mar (83)	3 Tues	14	81	89	8 Mar (67)	1 Sun	289 3006	4132
24 Mar (83)	4 Wed.	20	43	48	25 Feb (56)	5 Thur	165 0235	4133
24 Mar (84)	6 Fri	2	55	57	15 Mar (75)	4 Wed	199 7059	1134
24 Mar (83)	0 Sat	9	8	6	4 Mar. (63)	1 Sun	75 4287	4185
24 Mar (83)	1 Sun	15	20	15	23 Mar (82)	0 Sat	110 1111	4136
24 Mar (88)	2 Mon	21	82	24	13 Mar (72)	5 Thur	824 4660	4 137
24 Mar (84)	4 Wod	3		88	1 Mar (61)	, 2 Mon	200 1888	4138
24 Mar (83) 24 Mar (88)	5 Thur	9	56	42	20 Mar (79)	1 Sun	234 8712	4139
24 Mar (88) .	6 Fri 0 Sat	16 22	8 21	51	9 Mar (68)	5 Thur	110 5940	4140
24 Mar (84) .	2 Mon	22 4	33	9	27 Feb (58) 16 Mar (76)	8 Tues	324 9489	4141
24 Mar (83)	3 Tues	10	45	18	6 Mar (65)	1 Sun 6 Fri.	20 9992	4142
24 Mar (88)	4 V7ed .	16	5 7		23 Feb (54)	3 Tues	235 3541 111 0793	4143
24 Mar (83)	5 Thur	23	9	86	25 Feb (54) 14 Mar (78)	2 Mon	145 7593	4144 4145

TABLE

				coxc	URRENT Y	TEAR		
		runti	solar year m			Jovian Sa	MVATSABA	Mean intercalated (adhiha) lunar
Kan	Saka	Chateadı Vıkruna	Meshidi solar Revgal	Koʻlam	A.D	Southern system	No-thern system	montb
1	2	3	3 <i>a</i>	4	5	8	7	82
4146	967	1102	451	219 20	*1014 45	18 Tārana .	20 Vyaya	9 Mārgalīra .
4147	968	1103	452	220 21	1015 16	19 Pārthiva .	21 Sarvajit	•
4148	969	1104	453	221-22	1046-47	20 Vyaya .	22 Sarvadhärin	•
4149	970	1105	454	222-23	1047-48	21 Sarvajit	23 Virödhin	6 Bhādrapada
4150	971	1106	455	223 24	*1048 49	22 Sarvadhārın .	21 Vikrita	
4151	972	1107	456	224-25	1049 50	23 Vı ödhın	25 Khara .	***
4152	973	1103	457	225 26	1050-51	24 Vikrita	26 Nandana	3 Jyeshtha .
4153	974	1109	458	226-27	1051-52	25 Khara	27 Vijaya .	•
4154	975	1110	459	227-28	*1052 53	26 Nandana	28 Jaya	11 Mägha .
4155	976		460	228-29	1053 54	27 Vijaya	29 Manmatha	•••
4156	977		461	229 30	1054-55	28 Jaya	30 Durmukha	•••
4157	1			į	1	29 Manmatha	31 Hēmalamba	8 Kürttika
4159		[1		30 Darmukha	32 Vilamba	
4159					1	31 Hēmalamba	33 Vikārin .	
4160	1			1			. 34 Śārvarın	4 Āshādha
4161		1		1 -03-00	ì	3	35 Plava .	
416. 416	1	1	1	1		1	36 Śubhakrit	
416	. 1	34 111 85 11	i	l l	}		37 Söbhana	1 Chaitra
410	. 1	86 11	1	9 237-3 70 239-3	1		38 Krādhin	
410	}	1	1	71 239 4	1		39 Viśvāvasu	9 Mārgasīra
41	_ }	1	. 1	72 240-4	1		. 40 Parabhava	
41	. 1	1		78 241-4	i		41 Plavanga	a Distance
41	i69 :	990 1	i	74 242-	1	1	42 Kīlaka	6 Bhādrapada
41	70	091 1	126 4	75 243-	1	1	43 Saumya 44 Sadhārana	***
·	<u> </u>	<u> </u>		·			1 23 Navitaraha	

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	C	OMMENCEM	ent of the			1						
Mean	SOLAR YBAR		MPAN LUNI SOLAE X CIVIL DAY ON WRI	FEAR (MEAN SI OH CHAITRA É	UNRISE OF THE UKLA 1 ENDS)	l						
Day and month, A.D	Week-day	Time of mean Mēsha- samkrānti.	Day and month, A D.	Week-day.	a (here=i, the index of the iithi)	Kalı						
13	14	17	19	20	23	1						
24 Mar (84)	O Sat.	H M S 5 21 45	2 Mar (62)	6 Fr.	21 4821	4146						
24 Mar (83)	1 Sun	11 33 54	21 Mar (80)	5 Thur	56 1645	4147						
24 Mar (83) .	2 Mon.	17 46 8	11 Mar (70)	3 Tues	270 5194	4148						
24 Mar (83)	3 Tues .	23 58 12	28 Feb (59) .	0 Sat.	146 2422	4149						
24 Mar (84)	5 Thur	6 10 21	18 Mar (78)	6 Fri	180 9246	4150						
24 Mar (88)	6 Fri	12 22 80	7 Mar (66)	8 Taes	56 6475	4151						
24 Mar (83)	0 Sat.	18 84 89	25 Feb (56) .	1 Sun .	271 0023	4158						
25 Mar (84) .	2 Mon .	0 46 48	16 Mar (75) .	0 Sat.	305 6846	4158						
24 Mar (84)	3 Tues .	6 58 57	4 Mar (64)	4 Wed.	181 4075	4154						
24 Mar (83)	4 Wed	13 11 6	23 Mar (82)	3 Tues	216 0899	4155						
24 Mar (83)	5 Thur .	19 23 15	12 Mar (71)	O Sat.	91 8127	4156						
25 Mar (84)	O Sat.	1 85 24	2 Mar. (61) .	5 Thur .	306 1675	4157						
24 Mar (84)	1 San .	7 47 83	19 Mar (79) .	3 Tues .	2 2180	4158						
24 Mar (83)	2 Mon	13 59 42	9 Mar. (68)	1 Sun	216 5728	4159						
24 Mar (83) .	3 Tues .	20 11 51	26 Feb. (57)	5 Thur	92 2956	4160						
25 Mar (84)	5 Thur	2 24 0	17 Mar (76)	4 Wed	126 9780	4161						
24 Mar (84)	6 Fri .	8 36 9		1 Sun.	2 7009	4162						
24 Mar (83)	O Sat.	14 48 18		6 Fn.	217 0556	4163						
24 Mar. (83)	1 Sun .	21 0 27	, ,	5 Thur.	251.7380	4164						
25 Mar (84)	8 Tues.	8 19 86		2 Mon.	127 4809	4185						
24 Mar (84)	4 Wed	9 24 45	` '	1 San.	162 1438	4166						
24 Mar (88)	5 Thur.	15 86 54		5 Thur.	37 8661	4167						
24 Mar (88)	6 Fri	21 49 8		8 Tues.	252 2210	4168 4169						
25 Mar (84)	1 Sun .	4 1 12		2 Mon.	286 9054 162 6262	4170						
24 Mar. (84)	2 Mon.	10 18 21	7 Mar. (67)	6 Fri.	102 0202	70. V						

				CONC	JRRENT 1	EAR		
		krama.	solar 3 car ın			LES PAITOI	Araetavi	Mean intercalated (adhila) lunar
Kalı	Śaka	Chattriidi Vikrama.	Mengal. Bengal.	Kollam	A.D	Southern system	Northern sys*cm	montli
1	2	3	3a	4	5	G	7	82
6 171	992	1127	476	244-45	1069 70	43 Saumya	45 Virödhakpit	2 Varšikha
4172	993	1128	477	245-46	1070 71	44 Sādhārana	46 Paridbāvin	a The tand
4173	994	1129	478	246 47	1071-72	45 Virödhakrit	47 Pramēdin	11 Mägba .
4174	995	1130	479	247-48	*1072-73	46 Paridhāvin	48 Ānaņda	-
4175	996	1131	480	243-49	1073-74	47 Pramādin	49 Rākshasa	
4176	997	1132	481	249-50	1074-75	48 Ananda .	50 Anala†	7 Āśrina .
4177	998	1133	482	250-51	1075-76	49 Rālshasa	52 Kâlayukta	
4178	999	1134	483	251-52	*1076-77	50 Anala	53 Siddhärthin	
4179	1000	1135	484	252-53	1077-78	51 Pingala .	54 Randra .	4 Äshädha .
4160	1001	1136	485	253-54	1078-79	52 Kālayukta	55 Durmati .	400
4181	1002	1187	486	254-55	1079 80	53 Siddhärthin	56 Dundubhe	12 Phālgana .
4182	1003	1138	487	255-56	*1080 81	54 Raudra	57 Rudhırödgärın	•••
4183	1004	1139	488	256-57	1081-82	55 Durmatı	58 Raktāksha	
4184	1005	1140	489	257-58	1032-83	56 Dundubhi	59 Krődhana	9 Mārgasīra .
4185	1003	1141	490	-2 38-59	1083-84	57 Rudhirödgärin	60 Kshaya	
4186	1007	1142	491	259 60	*1084 85	58 Raktāksha	I Prabhava	
4187 4188	1003	1143	1	260 61	1085 86	59 Krodhana	2 Vibbava	6 Bhādrapada.
4189	1009	1144	1	281-62	1086-87	60 Kshaya	3 Śukla	1
4190	1011	1		262-63	1087-88	1 Prabhava	4 Pramōda	
4191	1012	}	1	263-64	*1083-89	2 Vibhava	5 Przjāpati	2 Vaisākha
4192	1	1	1	1	1089-90	3 Śukla .	6 Anguras	••
4198	- 1	1	1	1	1090-91	1	7 Śrimukha	11 Mägha
4194	1015	1	1	1	1091-92	- Julyana	8 Bhāva	**,
4195	1016	115	•	1	*1092-93 1093-94	8	9 Yuvan 10 Dhātp	7 Aśvina

^{† 51} Pingala was suppressed in the north, according to both "true" and mean systems, in Brahma-faildhanta

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	CC	OUMENC	EMI	ENT OF THE								
Mpan	BOLAR YBAR			Mean Luni-solar i Olvil day on whic	EAR (MEAN S H CHAITBA SU	UNRISE OF THE	Kalı					
Day and month,	Week day	Time o mean Mii samkrän	eha-	Day and month, A D	Week-day.	a (here = t, the index of the tithi)						
13	14	17		19	20	23	1					
24 Mar (83)	3 Tues	H M 16 25	s 30	24' Feb (55) .	3 Tues	38 3490	4171					
21 Mar. (83)	4 Wed	22 87	39	15 Mar. (71)	2 Mon	73 0314	4172					
25 Mar (84) .	6 Fri	4 49	48	5 Mar (64)	0 Sat	287 3863	4173					
24 Mar. (84)	0 Sat	11 1	57	23 Mar. (83)	6 Frı	322 0686	4174					
24 Mar (83) .	1 Sun	17 14	6	12 Mar (71) .	3 Tues .	197 7915	4175					
24 Mar (83) .	2 Mon .	23 26	15	1 Mar (60) .	0 Sat	78 5143	4176					
25 Mar. (84)	'4 Wed	5 38	24	20 Mar (79) *	6 Fra	105 1967	4177					
24 Mar (84) .	5 Thur .	11 50	33	9 Mar (69)	4 Wed	322 5515	4178					
24 Mer (83)	6 Fri	18 2	42	26 Feb (57)	1 Snn	198 2744	4179					
25 Yar. (84) .	1 Sun .	0 14	51	17 Mar (76) .	o Sat	232 9568	4180					
25 Mar (84)	2 Mon	6 27	0	6 Mar (65)	4 Wed	108 6796	4181					
24 Mar. (84) .	3 Tues	12 39	9	24 Mar (84)	3 Tues	143 3620	4182					
24 Mar (83) .	4 Wed	18 51	18	13 Mar (72)	0 Sat	19 0848	4188					
25 Mar (84)	6 Fr1 .	1 3	27	3 Mar. (62)	5 Thur .	233 4397	4184					
25 Mar. (84)	O Sat.	7 15	86	22 Mar. (81) .	4 Wed .	268 1220	4185					
24 Mar (84)	1 Sun .	13 27	45	10 Mar (70)	1 Sun	143 8449	4186					
24 Mar (83)	2 Mon	19 89	54	27 Feb (58) .	5 Thur	19 5678	4187					
25 Mar. (84)	4 Wed .	1 52	8	18 Mar (77)	4 Wod.	54 2501	4188					
25 Mar. (84) .	5 Thur	8 4	12	8 Mar (67)	2 Mon	268 6050	4189					
24 Mar. (84) .	6 Fra .	14 16	21	25 Feb (56) .	6 Fri	144 3278	4190					
24 Mar (88)	O Sat .	20 28	80	15 Mar (74) ·	5 Thur	179 0102	4191					
25 Mar (84) · ·	2 Mon.	2 40	89	4 Mar. (68)	2 Mon	54 7380	4192					
25 Mar. (84)	8 Tues .	8 52	48	23 Mar (82)	1 Sun.	89 4154	4198					
24 Mar. (84)	4 Wed .	15 4	57	12 Mar (72) .	6 Fr	203 7703	\$194					
24 Mar. (88) .	5 Thur	21 17	в	1 Mar (60)	3 Tues	179.4930	4195					

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					C	ONCUF	RENT Y	EA1	R 				
Kalı	Saka	Vikrama.		solar your in	Kol	lam	AD		Joyian Sad	.V.			Mean ntercolated dhika) lunar month
		Chartend, Wikrama.	Charterant	Mishadı s Bengal					Southern system		Northern system		
1	2	;	3	3 <i>a</i>		4	5		6		7		
4196	1017	11	152	501	26	69-70	1094-95	ε	Bhūva	1	l Iśra ra		
4197	1018	1	153	502	2	70-71	1095-96	٩) Invan .	1	2 Bahudhāvya		
4198	1019	1	154	503	2	71-72	*1096-97	10	Dhātri .	1	3 Pramáthin	4	Ashādha .
4199	1020		155	504	ı	72-73	1097 98	1:	l Iśvara] 1	4 Vikrama		.
4200	102	L 1	156	50	5 2	73 74	1098-99	1	2 Bahudhānya] :	5 I risha .	1:	2 Phälguna .
4201	102	2 1	1157	50	6 2	74-75	1099-1100	1	3 Pramäthin	:	lG Chitrabhānu		1
4202	102	3 1	1158	50	7 2	75-76	*1100 01] 1	4 Vikrama	1	17 Subhāna		
4203	102	4	1159	50	8 2	276 77	1101 02	1	5 Vrisha		18 Tārana	1	9 Mārgasīra
4204	10	25	1160	50	9	277-78	1102 03		l6 Chitrabhānu		19 Pärthiva		
4205	10	26	1161	5	10	278-79	1103 04		17 Subhānu		20 Vyaya		.,
4206	10	27	1162	2 5	11	279 80	*1104 0	;	18 Tārana	١	21 Sarvajit	1	ő Śrāvana
4207	7 10	28	116	3 5	12	280 81	1105 0	3	19 Pärthiva	-	22 Sarvadhārın	١	•••
420	8 10	029	116	4	513	281 82	1106 0	7	20 Vyaya	١	23 Virôdhin	1	
420	9 1	030	116	55	514	282-83	1107-0	8	21 Sarvazīt	į	24 Vikrita	I	2 Vaisākha
421	10 1	031	110	66	515	283 84	*1108 (9	22 Sarvadbārın		25 Khara		• •
42	11 :	1032	111	67	516	284 85	1109	10	23 Virödhin		26 Nandana	l	10 Pausha
42	12	1033	11	.68	517	285 86	3 1110	11	24 Vikrita	•	27 Vijaya	1	141
	1	1034	Ì	169	518	286-8	7 1111-	12	25 Khara		28 Jaya .		
	214	1035	1	170	519	257-8	ŧ		26 Nandana		29 Manmatha		7 Āśvina .
	215	1036	1	171	520		1		27 Vijaja		30 Durmukha		•
	216	103	- }	172	521		1		28 Jaya		31 Hēmalamba	Į	•
	217 3218	103	1	1173 1174	_ 522 523	1	1		1		32 Vilamba	٠	3 Jyēshtha
	4219	104	1	1175	52	į	- 1		1		33 Vikārin		10 70 11
	4220	104	ł	1176	52	1	1				34 Śārvarın 35 Plava	_	12 Phālguna
-		1				<u> </u>		==	Maryon		100 1 1010		"

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		Commencem	ENT OF THE			
Mean Lum solar year (mean sunrise of the fill day on which Chaitra sukla 1 ends)					Kali.	
Day and month	Week-day	Time of mean Mēsha- samkrānti	Day and month,	Week-day	a (here=t, the index of the tithi)	
13	14	17	19	20	28	1
		H M 8				
25 Mar (84) .	· O Sat.	8 29 15	20 Mar (79)	2 Mon	214 1755	4190
25 Mer (81)	. I Fan	9 41 21	9 Mar (68) .	6 Fm	89 8983	4197
24 Mar (84) .	2 Mon	15 53 33	27 Feb (58) .	4 Wed.	804 2531	4198
24 Mar (83)	3 Tues .	22 5 42	16 Mar (75) .	2 Mon.	0 8035	4199
25 Mar (84) .	. 5 Thur	4 17 51	6 Mar (65)	O Sat	214 6584	4200
25 Mar (84) .	. 6 Fr	10 30 0	25 Mar (84)	6 Fm .	249 3408	4201
24 Mar (84) .	. O Sat	16 42 9	13 Mar (78)	3 Tues .	125 0687	4202
24 Mar (83) .	1 Sun .	£2 54 18	2 Mar (61)	0 Sat.	0 7865	4203
25 Mar (84) .	3 Tues	5 6 27	21 Mar (80)	6 Fri	35 4689	4201
25 Mar (84)	4 Wod	11 18 36	11 Mar (70) .	4 Wed.	249 8237	4205
24 Mar (81) .	- 5 Thur	17 30 45	28 Feb (59) .	1 &nn.	125 5466	4206
4 Mar (88) .	• 6 Fr	23 42 54	18 Mar. (77)	0 Sat	160 2289	4207
5 Mar (84)	1 Sun	5 55 3	7 Mar. (66)	4 Wed	35 · 9518	4208
5 Mar (84)	- 2 Mon .	12 7 12	25 Feb (56) .	2 Mon	250 8066	4209
4 Mar (84)	3 Tues .	18 19 21	15 Mar. (75)	1 Sun	284 9889	4210
5 Mar (84)	5 Thur	0 31 30	4 Mar (68)	5 Thur .	160 7118	4211
5 Mar (84) .	6 Fri	6 43 89	23 Mar (82)	4 Wed.	195 3942	4212
Mar (84) .	0 Sat.	12 55 48	12 Mar (71)	Sun .	71 1171	4213
4 Mar (84) .	1 Sun	19 7 57	` '	Fri	285 4718	4214
5 Mar (84) .	3 Tues	\$		Thur .	320 1543	4215
5 Mar. (84)	4 Wed .	1	` '	Mon	195 8771	4216
5 Mar (84) . Mar (84) .	1.	1	1	Fn.	71 5999	4217
Mar. (84) .	1 1	1		į	106 2823	4218
Mar. (84) .	1 Sun	1		Tues .	320 6872 16 6876	421 9 4220

					CONC	JRRFNT Y	EAB.		
		4		year in			Jovian Sai	HYATSARA	Mean intercalated (adhika) lunar
Kalı	Śaka	Chaitradi Vikr	Chaitradi Vikrama. M'shādi solar year Bongal		Kollam	G.A	Southern system	Northern system	month
1	2	8	3	8a	4	5	6	7	8a
4221	1042	11	77	526	294-95	1119-20	33 Vikārin	36 Śubhakrit .	••
4222	1043	11	78	527	295 96	*1120 21	34 Śārvario	37 Śōbhana	8 Kärttika
4228	1044	111	79	528	296-97	1121-22	85 Plays	38 Krödhin -	•••
4224	1045	11	.80	529	297-98	1122-23	36 Śubhakrit	39 Viśtāvasu	٠
4825	1048	11	81	530	298-99	1123-24	37 Śōbhana	40 Parābhava	5 Srāvana .
4226	1047	7 11	182	581	299-300	*1124-25	38 Krödhin .	41 Plavanga .	
4227	104	3 \ 11	183	532	800-01	1125-28	89 Viśvāvasu .	42 Kilaka	
4228	104	9 1:	184	533	301-02	11 2 6-27	40 Parābhava .	43 Saumya	2 Varšākha
4229	105	0 1	185	534	802-03	1127-28	41 Plavanga	44 Sādhārana	
4280	10	1 1	188	535	803-04	*1128-29	42 Kilaka .	45 Virðdhaknit	10 Pausha
4331	10	-	187	538	304-05	1129-90	43 Saumya	46 Paridhāvin	"
4232	1		1188	587	805-06	1130-31	44 Sādhārana	47 Pramadin	7 Āśvina
4233 4234			1189	538	1	1131-32		48 Ānanda 49 Rākshasa .	/ Asvilla .
428	-`		1190 1191	539	1 33. 30		ł	50 Anala	
428	_ _	1	1192	1				51 Pingala .	3 Jyështha .
4%3	1	058	1193	1	1		ł	52 Kālayukta	
428	18 1	059	1194	54	1	1	1	53 Sidâhārthin	12 Phälguns
42	39 1	060	1195	5 54	4 812-1	8 1187-8	1	. 54 Raudra	•••
42	6240 1081 1196		5 54	15 818-1	4 1138-8	9 52 Kālayukta	55 Durmatı .		
	4241 1032 1197		7 6	48 814-1	5 1139-4	0 53 Siddhārtlim	56 Dandabhı	8 Kärttika	
	- 1	1068	119	1	47 815-		1 54 Raudra	57 Rudhirödgārin	
	1	1064		- 1	48 816-		12 55 Durmsta	58 Raktāksha	
	214	1065 1068	i	- 1	549 317- 550 318-			59 Krödhana	5 Srāvana .
7		10.0			550 318	19 1143	44 57 Rudhırödgüri	n 60 Kshaya .	

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•	co	NME:	NCEV	ent of the			
Myer	SOLAR YEAR			MPAN LUNI SOLAR CIVIL DAY ON WHI	YEAR (MEAN 8 ON CHAITEA 8	Whrise of the UKLA 1 ENDS)	Kali.
Day and month,	Weok-day	mear	me of n Mësht nkranti	Day and month,	Week-day	a (here = t, the index of the tithi)	
13	14		17	19	20	23	1
25 Mar (84)	3 Tues 4 Wol. 6 Fri. 0 Sat. 1 Sun. 2 Mon 4 Wed. 5 Thurs 6 Fri 0 Sat. 2 Mon. 3 Tues 4 Wed. 5 Thurs.	11 20 2 9 15 21 3 9 16 22 4 10 16 23	M S S S S S S S S S S S S S S S S S S S	2 Mar (62) 21 Mar (80) 10 Mar (69) 28 Feb (59) 18 Mar (78) 7 Mar (86) 24 Feb (55) 15 Mar (74) 4 Mar (64) 23 Mar (71) 1 Mar. (60) 19 Mar (79)	6 Fri . 3 Tues 2 Mon. 6 Fri 4 Wed 3 Tues, 0 Sat. 4 Wed, 8 Tues, 1 Sun 0 Sat. 4 Wed. 1 Sun. 0 Sat	231·0424 106·7652 141 4477 17·1704 231 5253 266 2077 141·9306 17 6533 52·3857 266 6906 301 3729 177·0958 52·8186 87·5011	4221 4223 4224 4224 4225 4226 4227 4228 4229 4230 4231 4282 4233
25 Mar (84) 25 Mar (84) 25 Mar (84)	0 Sat 1 Sun 2 Mou .	11	28 6 35 15 47 24	9 Mar (68) . 26 Feb (57) 17 Mar (76)	5 Thurs 2 Mon 1 Sun	801·8558 177 5787 212-2611	4235 4236 4237
24 Mar (84) 25 Mar. (84) . 25 Mar (84)	8 Tues . 5 Thurs 6 Fri	8	59 8311 4228 51	5 Mar (65) 24 Mar (83) . 18 Mar (72)	5 Thurs . 4 Wed	87-9840 122-6668 9998 8892 §	4288 4239 4240
25 Mar (84) 25 Mar. (85) 25 Mar. (84)	O Sat 2 Mon 8 Tues	0 7	86 0 48 9 0 18	8 Mar (62) 21 Mar (81) 10 Mar (69)	6 Fr1 5 Thure 2 Mon	212·7440 247 4284 128·0492	4241 4213 4243
25 Mar. (84) 25 Mar. (84)	4 Wed 5 Thurs	1	12 27 24 80	27 Feb (58) \ 18 Mar (77)	6 Fri. 5 Thurs.	9998·8721 § 38 5545	4244 4245

CONCURRENT YEAR JOYIAN SANVATSARI Mean into-calated (adm.ke) lines month.			-							D			
Fair Saka						CC	NCU	RRENT	Y EA				
1 2 3 3a 4 5 6 7 8a 4245 1067 1202 551 319-20 *1145-45 58 Raktāksha 1 Prabhava	1			ama.	yosr in					Joylah Sas	TATE	BABA	intercalated
1 2 8 32 4 5 6 4248 1087 1202 551 319-20 *1144-45 58 Raktākha . 1 Prabhava	Kalı.	Śaka.	_	Chartrada Vakr	Meshadi solar Bongal.	Kollam		A.D.				system	
4248 1089 1202 551 319-39 1149-46 59 Krēdhana 2 Vibhava 1 Chaitra 4248 1089 1204 553 321-22 1146-47 60 Kehaya 3 Śukla 1070 1205 554 322-23 1147-48 1 Prabhava 4 Pramēda 10 Pausha 4250 1071 1206 555 323-24 *1148-49 2 Vibhava 5 Prayāpati 6 Anguras 7 Śrīmukha 6 Bhādrapada 7 Śrīmukha 6 Bhādrapada 7 Śrīmukha 6 Bhādrapada 7 Śrīmukha 6 Bhādrapada 7 Śrīmukha 6 Bhādrapada 8 Bhāna 7 Śrīmukha 10 Dhātra 3 Jyēshtha 4251 1075 1210 558 323-22 *1150-51 4 Pramēda 7 Śrīmukha 6 Bhāna 7 Śrīmukha 10 Dhātra 3 Jyēshtha 4255 1076 1211 560 323-29 1153-54 7 Śrīmukha 10 Dhātra 3 Jyēshtha 4256 1077 1212 551 329-80 1154-55 8 Bhāva 11 Iśvara 11 Iśvara 12 Bahudhānya 11 Māgha 4258 1079 1214 568 381-32 *1155-57 18-Dhātra 11 Iśvara 14 Vikrama 12 Bahudhānya 15 Pramāthu 16 Chitrabhānuf 1081 1216 564 332-38 1157-58 11 Iśvara 14 Vikrama 16 Kārtikha 16 Kārtikha 16 Chitrabhānuf 17 Pārtāvea 5 Śrāvana 4256 1084 1219 568 385-87 1161-62 16 Chitrabhānu 18 Tārana 18 Tā	1	2	- -	3	80	4		5		6		7	8a
1070	4247	108	в	1203	552	82	0-21	1145-4	5 5	9 Krödhana	2	Vibhava, .	i I
4250 1071 1206 565 823-24 *1148-49 2 Vibhava . 5 Prajāpati		1	1		554	82	2-23	1147-4	8	1 Prabhava	.\ 4	Pramoda	10 Pausha
4251 1072 1207 556 324-25 1149-50 3 Śnkla . 6 Angiras . 7 Śrīmukha . 6 Bhādrapada . 4252 1073 1208 557 325-26 1150-51 4 Pramēda . 8 Bhāva					1	5 8	23-24	*1148-	19	2 Vibhava	- \ E	Prajāpati	"
1073 1208 557 325-28 1150-51 4 Francus 8 Bhāva	-			24-25	1149-	50	8 Śukla .	1		1 1			
1074 1209 558 325-27 1101-52 5	4252	10	773	120	55	7 \ 3	25-26	1150-	51	4 Pramôda			6 Bhādrapada
4254 1075 1210 659 327-23 1152-55	4258	10	074	120	9 55	18 B	28-27	1151.	52	5 Prajāpati			1
4255 1076 1211 500 328-29 1105-52 1105-52 1105-52 11076 1212 561 329-30 1154-55 11076 1213 562 380-31 1155-56 9 Yuvan 12 Bahudhānya 11 Māgha 1258 1079 1214 563 381-32 *1156-57 16-Dhātpr 14 Vikrama 14 Vikrama 14 Vikrama 14 Vikrama 15 Vipaha 15 Vipaha 15 Vipaha 16 Chitrabhānuf 16 Chitrabhānuf 16 Chitrabhānuf 17 Vikrama 18 Tārana 18 Tārana 18 Tārana 19 Pārthīva 19 Pārthīva 19 Pārthīva 19 Pārthīva 1081 1220 569 337-38 1162-68 16 Chitrabhānu 20 Vyaya 1081 1222 571 339-40 *1164-65 18 Tāraṇa 12 Sarvaṇit 10 Chaitra 10 Chaitra 1082 1222 571 339-40 *1164-65 19 Pārthīva 23 Virōdhin 10 Chaitra 10 Pauaha 1082 1224 578 341-42 1166-67 20 Vyaya 24 Vikṇia 10 Pauaha 10 Pauaha 10 Pauaha 1090 1225 574 342-43 1167-68 21 Sarvaṇit 25 Khara	4254	s 1	075	121	.o 6	59 1	327-28	*1152	-58	_			o Tazalutho
1077 1212 501 325-30 1157-58 1 128 562 330-31 1155-55 9 Yuvan 12 Bahudhānya 11 Māgha 1258 1079 1214 568 831-32 *1156-57 16-Dhātṛr 13 Pramāthin 14 Vikrama 14 Vikrama 15 Vṛnha 15 Vṛnha 15 Vṛnha 15 Vṛnha 15 Vṛnha 16 Chitrabhānuf 16 Chitrabhānuf 16 Chitrabhānuf 18 Tārana 18 Tārana 18 Tārana 18 Tārana 19 Pārthīva 19 Pārthīva 19 Pārthīva 19 Pārthīva 1083 1218 567 335-36 1162-68 16 Chitrabhānu 20 Vyaya 19 Pārthīva 1084 1219 568 337-38 1162-68 16 Chitrabhānu 20 Vyaya 1084 1220 569 337-38 1162-68 16 Chitrabhānu 21 Sarvayit 1084 1222 571 339-40 1164-65 18 Tāraṇa 12 Sarvayit 1084 1223 572 340-41 1165-66 19 Pārthīva 23 Virādhīn 10 Pauaha	425	5 1	076	121	1 5	}		1			- 1	· ·	. 3 Syeanting
4257 1078 1213 502 330-31 1155-57 18-Dhātṛr 13 Pramāthin	_	1			~	- 1					- {		11 Macha
4259 1080 1215 584 332-33 1157-58 11 Isvara 14 Vikrama 14 Vikrama 15 Vijaha 15 Vijaha 15 Vijaha	•			1		1		- 1	•	1	- 1	•	
4260 1081 1216 565 383-34 1158-59 12 Bahudhānya . 15 Vņaha . 8 Kārttikn 4261 1082 1217 566 334-35 1159-60 13 Pramāthin . 16 Chitrabhānuf		I		- }	}	1		1		1			
4261 1082 1217 566 334-35 1159-80 13 Pramāthin . 18 Chitrabhānuf . 4262 1083 1218 567 335-36 *1160-61 14 Vikrama . 18 Tārana . 4263 1084 1219 568 386-37 1161-62 15 Vņisha . 19 Pārthīva . 5 Śrāvana 4284 1085 1220 569 387-38 1162-68 16 Chitrabhānu . 20 Vyaya . 4265 1086 1221 670 838 39 1163 64 17 Subhānu . 21 Sarvajit . 4266 1087 1222 571 339-40 *1164-65 18 Tāraņa . . 22 Sarvadhārin 1 Chaitra 4267 1088 1223 572 340-41 1165-66 19 Pārthiva . . 23 Virōdhin . 4268 1089 1224 573 341-42 1166-67 20 Vyaya . . 24 Vikņia . . 4269 1090 1225 574 342-43 1167-68 21 Sarvajit <		·			}	1		1		1		15 Vņsha .	. 8 Kārttika
4282 1083 1218 567 335-36 *1160-61 14 Vikrama . 18 Tārana						566	834-	35 11	59-60	13 Pramāthin	ا.	16 Chitrabhānuf	
4284 1085 1220 569 837-88 1162-68 16 Chitrabhānu 20 Vyaya 4265 1086 1221 570 838-89 1163-64 17 Subhānu 21 Sarvajst 4266 1087 1222 571 339-40 *1164-65 18 Tāraņa 22 Sarvadhārsa 1 Chaitra 4267 1088 1223 572 840-41 1165-66 19 Pārthiva 23 Virōdhin 4268 1089 1224 578 841-42 1166-67 20 Vyaya 24 Vikņia 10 Pausha 4869 1090 1225 574 342-43 1167-68 21 Sarvajit 25 Khara	4	262	10	083	1218	567	835-	36 *11	80-61	14 Vikrama	•	18 Tārana .	
4265 1086 1221 570 838 89 1163 64 17 Subhānu 21 Sarvajsi 4266 1087 1222 571 339-40 •1164-65 18 Tāraņa 22 Sarvadhārsa 1 Chaitra 4267 1088 1223 572 340-41 1165-66 19 Pārthiva 23 Virōdhin 4268 1089 1224 578 341-42 1166-67 20 Vyaya 24 Vikņita 10 Pausha 4869 1090 1225 574 342-43 1167-68 21 Sarvajit 25 Khara	•	12 63	1	084	1219	588	886	-87 11	61-69	2 15 Vrisha .	•	19 Pārthiva	. 5 Śrāvana .
4266 1087 1222 571 339-40 •1164-65 18 Tāraņa . 22 Sarvadhārsa 1 Chaitra 4267 1088 1223 572 340-41 1165-66 19 Pārthiva . 23 Virōdhin . 4268 1089 1224 578 341-42 1166-67 20 Vyaya . 24 Viknta . 10 Pausha 4269 1090 1225 574 342-43 1167-68 21 Sarvajit . 25 Khara .		4284	1	1085	1220	569	887	-88 11	62-6	8 16 Chitrabhani	1 -		"
4267 1088 1223 572 840-41 1165-66 19 Pārthiva 23 Virēdhin . 4268 1089 1224 573 341-42 1166-67 20 Vyaya . 24 Vikrita . 10 Pausha 4869 1090 1225 574 342-43 1167-68 21 Sarvajit . 25 Khara .		-	1	1		l	1	Į		Ť.	•	,	
4268 1089 1224 578 341-42 1166-67 20 Vysys 24 Vikuts 10 Paushs			1	1	ł	•	1	1			•	}	ļ
4869 1090 1225 574 842-48 1167-68 21 Sarvajit 25 Khara			- 1		1	ł	1	1			•	\	1
			1	l	l	1	- t	1				1	ł
22 Sarvacularin 120 Mandalin		427	0	1091	1220	5	15 8	1		1		. 28 Nandana	

^{† 17} Sabbanu was suppressed in the north by the Brahma-Siddhanta, both in true and mean reckoning

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COMMENCEMENT OF THE												
	Mean	SOLAR TEAR		MPAN LUNI SOLAR CIVIL DAY OA WHIC	TPAR (MRAN BU CH CHAITBA ÉU	THEISE OF THE						
	Day and month,	Wook-day	Timo of mean Mesha- samkränti	Day and month, A.D	Wook day	a (hero = t, the index of the tith)	Kali.					
	13	14	17	19	20	23	1					
-			H. M E									
25	Mar. (85)	O Sat	1 36 45	7 Mar (67)	3 Tues	247-9098	4248					
25	Mar. (81) .	1 Snn .	7 48 54	24 Feb (55) .	0 Sat.	123-6821	4247					
25	Mar (84)	2 Mon	14 1 8	15 Mar. (74) .	6 Fri.	158 8145	4248					
25	Mar (84)	8 Tues .	20 13 12	4 Mar (68)	8 Tues.	84-0378	4249					
25	Mar (85)	5 Thurs.	2 25 21	22 Mar (82) .	2 Mon	68 7197	4250					
25	Mar (84)	6 Frt.	8 87 30	12 Mar (71)	O Sat.	283-0746	4231					
25	Mar. (84)	0 Sat.	14 49 89	1 Mar. (60)	4 Wod.	158-7974	4252					
25	Mare (84)	1 Snn	21 1 48	20 Mar. (79)	S Tues	198 4798	425\$					
25	Mar (85) •	3 Tnes	3 18 57	8 Mar (68) .	O Sat.	69 2026	4254					
25	Mar (84)	4 Wod	9 26 6	26 Fob (57)	5 Thur .	288 5575	4255					
25	Mar. (81)	5 Thur	15 88 15	17 Mar (76)	4 Wed	818 2898	4258					
25	Mar. (84) .	6 Fri	21 50 24	6 Mar (65)	I Sun.	193 9627	4257					
25	Mar (85) .	1 San.	4 2 38	24 Mar (84) .	O Sat	228-6451	4258					
25	Mar. (84)	2 Mon .	10 14 42	18 Mar (72)	Wed.	104-8680	4259					
25	Mar. (84)	3 Tues	18 26 51	8 Mar. (62)	2 Mon.	818-7227	4260					
25	Mar. (84)	4 Wed.	22 89 0	21 Mar (80)	O'Sat.	14-7781	4261					
25	Mar (85)	6 Fri	4 51 9 1	10 Mar. (70)	5 Thur .	229 1280	4262					
25	Mar (84) .	O Sat.	11 8 18 2	27 Feb (58)	2 Mon .	104-8508	4268					
25	Mar (84)	1 Sun.	17 16 27 1	18 Mar (77)	l Sun.	189·5882	4264					
25	Mar (84)	2 Mon .	28 27 86	7 Mar. (66) .	Thur.	15 2561	4265					
25	Mar. (85)	4 V/cd .	5 89 45 2	5 Feb (56) . 8	Tues .	229 6109	4266					
25	Mar. (84)	5 Thur.	11 51 54 1	5 Mar (74) . 2	Mon.	264 2982	4267					
25	Mar. (84)	G Fri.	18 4 8	4 Mar. (63) . 6	Fri.	140-0161	4268					
26	Mar. (85)	1 Sun	0 16 12 2	8 Mar. (82) . 5	Taur .	174-6985	4959					
25	Mar. (85)	2 Mon.	6 28 21 1	1 Mar. (71)	Mon.	50-4508	427 0					

					ONCUR	RENT Y	GAR.		
					1	1			
		rama.	year in			_	Jovian Sai	TATBARA.	Mean inte-calated (adhika) lunar
Kali.	Śaka	Chaitradi Vikrama.	Mëshëdi solar Renosl	Kol	lam	G.A	Southern system	Northern system	month
1	2	8	3a	7	Į.	5	6	7	8a
62771	1092	125	e7 57	6 34	4-45	1169-70	23 Vırödhın .	27 Vijaja .	6 Bhâdrapada .
4272	109	3 12	28 57	7 84	5-46	1170-71	24 Vikrita	28 Jaya .	
4278	109	4 12	29 57	8 84	ß 47	1171-72	25 Khara	29 Manmatha	
4274	109	5 12	80 5	19 84	47-48	1172-78	26 Nandana .	30 Durmukha .	3 Jyeshtha .
4275	109	6 12	31 6	30 8	48-49	1173-74	27 Vijaja .	31 Hēmalamba	
4276	109	7 12	232 5	81 B	49-50	1174-75	28 Jaya .	32 Vilamba	. 11 Mägha
4277	109	15	238 5	82 3	50-51	1175-76	29 Manmatha .	33 Vikārin .	
4278	10	99 1	284	88 8	51-52	*1176-77	30 Durmukha	34 Śārvatın	
4279	11	00 1	235	84 1	352-53	1177-78	31 Hēmalamba	35 Plava .	. 8 Kārttika
4280	1	- 1	- 1	}	358-54	1178-79	32 Vilamba		•]
4281					854 55	1179-80	l	37 Śōbhana	*
4281	1 -		1238	1	855-50	*1180,81		38 Krödhin	4 Äshādha
428 428	\ \	[1240	1	359-57 857-58	1181-82 1182-83		39 Visvāvasu 40 Paršbhava	•
420	· [-	{	124)	590	858-59	1182-83		40 Paraonava	1 Chartra
426	- 1	1	1942	591	358-60	*1184-8	1	42 Kilaka	Chaina
42	87	1108	1248	592	360-61	1185-8		. 43 Saumya	9 Märgasıra
43	68	1109	124	598 J	261-62	1186-8	1	44 Sādhārana	
41	180	1310	1845	594	862-63	1387-8	8 41 Plavanga	. 45 Vırödhakrit	
_	200	ım	1248	595	863-64	*1188-6	9 42 Klaka .	. 46 Parıdhāvın	6 Bhādrupada .
	101	1112	1247	596	864-65		0 43 Saumya .	. 47 Pramadin	
_	202 202	1118	3848	507	285-68		1	. 48 Ananda	
		1114	1	898 893	{		}	. 49 Rāksbasa	. 2 Valsāklu ,
	,1963 	1116	1	1	}	1		• 50 Anala.	•
,) 				1100.	94 47 Pramadin	. 51 Pingala .	. 11 Mapha

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COMMENCEMENT OF THE											
Mean (SOLAR TEAR.		MFAY LUNI-SOLAR YEAR (MEAN SUNRISE OF THE CIVIL DAY ON WHICH CHAITRA SURIA 1 R/DS).								
Day and month, A D	Week day	Time of mean Mēsha- samkrānti	mean Mesha- Day and month, Week-day the index								
13	14	17	19	20	28	1					
		H M S									
25 Mar (84)	3 Tues	12 40 80	1 Mar (60)	0 Sat	264 7762	4271					
25 Mar (84) .	4 Wed .	18 52 89	20 Már (79) .	6 Fr:	291) 4586	4272					
26 Mar (85) .	6 Fii	1 4 48	9 Mar (68)	8 Tues	175 1815	4273					
25 Mar (85) .	0 Sat.	7 16 57	26 Feb (57)	0 Sat .	50 9042	4274					
25 Mar (84) .	1 San	13 29 6	16 Mar (75)	6 Fr1	85 5866	4275					
25 Mar (84) .	2 Mon	19 41 15	6 Mar (65)	4 Wed .	299 9415	4276					
28 Mar (85) .	4 Wed	1 58 24	24 Mar (88)	2 Mon	9995 9918 §	4277					
25 Mar (85) .	5 Thur	8 5 38	13 Mar (73)	0 Sat.	210 8467	4278					
25 Mar (84) .	6 Fii	14 17 42	2 Mar (61)	4 Wed	86 0695	4279					
25 Mar. (84)	O Sat.	20 29 51	21 Mar (80)	8 Tues	120 7519	4280					
26 Mar (85)	2 Mon	2 49 0	10 Mar. (69)	0 Sat.	9990 4747 §	4281					
25 Mar (85)	3 Taes	8 54 9	28 Feb (59) .	5 Thur	210 8296	4282					
25 Mar (84)	4 Wed	15 6 18	18 Mar (77)	4 Wed.	245 5120	4283					
25 Mar. (84) .	5 Thur	21 18 27	7 Mar (66)	1 Sun	121 2349	4284					
26 Mar. (85)	0 Sat	3 80 86	24 Feb (55) .	5 Thur.	9996 9576 §	4285					
25 Mar (85)	1 San	9 42 45	14 Mar. (74)	4 Wed .	81 C400	4286					
25 Mar. (84) .	2 Mon	15 54 54	4 Mar (63)	2 Mon	245-9949	4287					
25 Mar. (84)	3 Tues	22 7 3	28 Mar (82)	1 Sun .	280 6772	4288					
26 Mar (85) .	5 Thur	4 19 12	12 Mar (71)	5 Thur	156 4001	4289					
25 Mar (85) .	6 F11	10 31 21	29 Feb (60)	2 Mon	82 1230	4290					
25 Mar. (84)	0 Sat	16 43 30	19 Mar (78) .	1 Sun.	66-8054	4291					
25 Mar. (84) .	1 Sun	22 55 89	9 Mar (68)	6 Fri	281 1602	4202					
26 Mar. (85)	8 Tues .	5 7 48	26 Feb (57)	3 Tues	156 8880	4293					
25 Mar (85)	4 Wed.	11 19 57	16 Mar (76) .	2 Mon .	191 5854	4294					
25 Mar. (84)	6 Thur	17 - 82 6	5 Mar (64) .	6 Fri.	67 2882	4295					

TABLE

	CONCURRENT YEAR												
													
		krama.	ır yoar ın			Jovian Sai	ÅVATSABA.	Mean into-calated (adhika) lunar					
Kalı.	Śaka.	Chartiñdi Vikrame	Mehidi solar Bongal	Kollam	AD	Southe ⁻ n system	Northern system	month.					
1	2	3	3a	4	5	6	7	84					
4000	1110		201	000 70		<i>t</i> o <i>t</i>	FO FF-1						
4208	1117	1252	601	369-70	1194-95	48 Ånanda	52 Kālayukta .						
4297	1118	1253	602	370-71	1195-96	49 Rālshasa	53 Siddhā-thin .						
4298	1119	1254	603	371-72	*1196-97	50 Anala	54 Raudra	8 Kārttika ‡					
4299	1120	1255	604	372-73	1197-98	51 Pingala .	55 Durmatı	**					
4000	1121	1256	605	373 74	1198-99	52 Kālayukta	56 Dundubhi						
4.'01 4302	1122	1257	808	374-75	1199-1200	53 Siddhärthin	57 Rudhırödgärin	4 Āshādha .					
4203	1123	1258	607	375 76	* 1200-01	54 Raudra	58 Raktālsha •	•					
4304	1124 1125	1259 1260	608	376-77	1201-02	55 Durmatı	59 Krōdhana						
4205	1125	1281	603	377-78	1202-03	56 Dundubhi	60 Kshaya	1 Chartra					
4305	1127	1262	610	378-79	1203 04	57 Rudhifödgärin	1 Prabhava						
4807	1128	1263	611	879-80	*1204-05	58 Raktāksha	2 Vibhaya	9 Mārgasīra					
4308	1129	1203		380-81	1205-06	59 Krödhana	3 Sukla	***					
4309	1120	1265	613	381-82	1206-07	60 Kshaya .	4 Pramõda	***					
4310	1131	1266	614	382-83	1207-08	1 Prabhava	5 Prajāpatı	6 Bhadrapada					
4311	1132	1267	616	383-84	*1208-09	2 Vibhava	6 Angras	•					
4512	1133	1288	1	384-85	1209-10	3 Śukla	7 Śrimukha	• •					
4313	1134	1269	1		1210-11	4 Pramoda	8 Bhāva	2 Varsākha					
4314	1125	1	1	1	1211-12	5 Prajāpati	9 Yuvan	 *					
4° 15	1126	1	1	1	1	6 Angiras .	10 Dhātri	11 Māgha					
4316	1127	1		1	}	7 Śrīmukha	11 Iśwara						
4317	1129	1273	1	1		1	12 Bahudhānya						
4318	1189	127	1			9 Yuvan 10 Dhātri	13 Pramāthm	7 Āśvina					
4319		127	5 62	1		ĭ	14 Vikrama	• •					
4320	114	1 127	6 62	1		12 Bahudhānya	15 Vrisha . 16 Chitrabhānu .	4 Ashādha					

[‡] Seq "Roma ks." p. 215 alove.

XC-contd.

		COMMENCE	MENT OF THE		•					
Mean	SOLAR YEAR.		MEAN LUNI-SOLAE : CIVIL DAY ON WHIC	YBAR (MEAN SU DH CHAITBA ŚU	UNRISE OF THI	Kali.				
Day and month,	Week-day	Time of mean Mesha- samkränti	Day and month, A D.	Week-day.	a (here=t, the index of the tithi)					
18	14	17	19	20	23	1				
Of 35 (04)	6 Fr.	H M S	24 Mar (83) .	5 Thur.	101 0708	4296				
25 Mar. (84) .	1 Sup	23 44 15 5 56 24	14 Mar. (78)	3 Tues	101 9706 316 3255	4297				
26 Mar (85) . 25 Mar (85) .	2 Mon	5 56 24 12 8 33	2 Mar (62)	0 Sat.	192 0482	4298				
25 Mar (84) .	3 Tues	18 20 42	21 Mar (80)	6 Fr.	226-7307	4299				
26 Mar (85) .	5 Thur	0 32 51	10 Mar (69)	3 Tues.	102 4535	4800				
26 Mar (85) .	6 Fr	6 45 0	28 Feb. (59)	1 Sun	816 8083	4301				
25 Mar. (85)	0 Sat.	12 57 9	17 Mar. (77)	8 Fr	12 8587	4802				
25 Mar (84) .	1 Sun	19 9 18	7 Mar (66)	4 Wed	227 2158	4303				
26 Mar. (85) .	3 Tues	1 21 27	24 Feb (55) .	1 Sun	102 9863	4304				
26 Mar (85)	4 Wed	7 33 36	15 Mar (74) .	O Sat.	137 6188	4305				
25 Mar. (85) .	5 Thur.	13 45 45	8 Mar. (63)	4 Wed.	13 8416	4306				
25 Mar. (84) .	6 Fm .	19 57 54	22 Mar (81)	3 Tues .	48 0239	4807				
26 Mar (85)	1 Sun	2 10 8	12 Mar (71)	1 Sun	262 3788	4303				
26 Mar (85) .	2 Mon	8 22 12	1 Mar. (60)	5 Thur	188 1017	4309				
25 Mar (85)	3 Tues .	14 34 21	19 Mar (79)	4 Wed.	172-7840	4310				
25 Mar. (84)	4 Wed	20 46 80		1 Sun.	48 5069	4311				
26 Mar (85) .	ß Frı	2 58 39	26 Feb (57)	6 Fn .	262 8617	4312				
26 Mar. (85) .	O Sat.	9 10 48	17 Mar (76)	5 Thur.	297 5441	4818				
25 Mar (85) .	1 Sun	15 22 57	5 Mar (65)		178 2669	4314				
25 Mar (84) .	2 Mon	21 85 6			207 9493	4315				
26 Mar (85)	4 Wed.	8 47 15		Tbur.	83 6722	4916 4917				
28 Mar (85)	5 Thur	9 59 24	1		298-0269	4317 4318				
25 Mar (85) .	6 Fri .	1			332·7094 203 4322	4319				
25 Mar (84) .	0 Sat.	j		Tues.	84 1551	4320				
26 Mar (85) .	2 Mon.	4 85 51	27 Feb (58) . S			2 0				

TABLE

				cond	URRENT	YEAR		
Kalı.	Śaka	Charte idł Viki ania.	Mehiili solar year in Pangal.	Kollam	A.D.	JOVIAN SA Southern system	Northern system	Mean intercalated (adhika) lunar mouth
	2	3	₹ 3a	4		6		
		-			5	0	7	8a
4321	1142	1277	626	394-95	1219-20	18 Pramāthin .	17 Subhānu .	• •
4322	1143	1278	627	395-96	*1220-21	14 Vikrama .	18 Tārana .	12 Phālguna
4323	1144	1279	628	396-97	1221-22	15 Vrisha	19 Pā thưa	
4321	1145	1280	629	397-98	1222-23	16 Chitrabhānu .	20 Vyaya	
4325	1146	1281	630	398 99	1223-24	17 Subhānu	21 Sarvajit .	9 Mārgasīra
4328	1147	1232	631	399-400	*1224-25	18 Tārana .	22 Sarvadhārın	
4327	1148	1283	632	400-01	1225 26	19 Pārthīva .	23 Vı-ödhin .	
4328	1149	1284	633	401-02	1226-27	20 Vyaya	24 Viknta .	5 Śrāvana .
4329	1150	1285	634	402-03	1227-28	21 Sarvajit .	25 Khara	.
4330	1151	1286	635	403 04	*1228-29	22 Sarvadbānn	26 Nandana .	
4331	1152	1257	636	404-05	1229-30	23 Virōdhin .	27 Vijaja	2 Vaišākha
4332	1153	1288	637	405-06	1230-31	24 Viknta	28 Jaya	
4333	1154	1289	638	406 07	1231 32	25 Khara	29 Manmatha	10 Pausha
4334	1155	1290	639	407-08	*1232-33	26 Nandana.	30 Durmukhs	
4335	1155	1291	640	408-03	1233-34	27 Vijaya .	31 Hēmalamba	
4335	1157	1292	841	403-10	1234-35	28 Jaya	32 Vilamba	7 Aśvina
4337	1158	1293	642	410-11	1235 36	29 Manmatha	33 Vikārin	
4338	1159	1294	643	411-12	*1238-37	30 Durmukha	34 Śārvarın	***
4339	1160) _	1	412-13	1237-38	31 Hēmalamba	35 Plava	4 Āshādha
4340	1161	1		413-14	1238 39	32 Vilamba .	36 Śubhakrit	
4341 4342	1162		1	}	1239-40	38 Vikārin .	37 Śōbhana .	12 Phälguna
4343	1163	1			*1240-41	34 Śārvarın .	88 Krödhin	
4244	1164	1	}	}		35 Plays	39 Viśvāvasu	***
4845	1		1	1	}	- mantakite .	40 Parähhava	9 Märgaina
	1	1307	650	418-19	1243-44	37 Śōbhana .	41 Playangu	

XC-contd.

COMMENCEMENT OF THE										
	C)MME	NCEMI	ENT OF THE			1			
Mean :	SOLAR YEAR.			MEAY LUNI SOLAR X CIVIL DAY ON WHI	THAR (MEAN SI OH CHAITBA Ś	UNDINE OF THE UKLA 1 BNDS)	Kalı			
Day and month, A.D	Week-day	mean	ie of Mēslia- rānti	Day and month, A D	Week-day	a (here = t, the index of the tsthi)				
13	14	1	7	19	20	28	1			
		H 1	v s							
26 Mar. (85) .	3 Tues .		8 0	18 Mar (77)	2 Mon	118 8374	4321			
25 Mar (85)	4 Wed.	17	0 9	7 Mar (67)	0 Sat	383 1923	4322			
25 Mar (84) •	5 Thur.	23 1	2 18	25 Mar (84)	5 Thur	29 2427	4323			
26 Mar (85)	0 Sat.	5 2	24 27	15 Mar (74)	3 Tues	243 5975	4824			
26 Mar. (85)	1 Sun	11 8	6 86	4 Mar (63)	0 Sat	119 3208	4325			
25 Mar (85) .	2 Mon.	17 4	8 45	22 Mar. (82)	6 Frı	154 0027	4326			
26 Mar (85) .	4 Wed	0	0 54	11 Mar (70)	З Тпоз	29 7256	4327			
26 Mar. (85)	5 Thur	6 1	3 3	1 Mar (60)	1 Sun	244 0804	4328			
26 Mar (85)	6 Fri	12 2	5 12	20 Mar (79)	0 Sat.	278·7628	4329			
25 Mar (85)	0 Sat	18 8	7 21	8 Mar (68)	4 Wed	154 4857	4330			
26 Mar (85) .	2 Mon	0 4	9 80	25 Feb (56) .	1 Sun .	30.2084	4331			
26 Mar (85)	3 Tues	7	1 39	16 Mar (75) .	O Sat.	64 8908	4332			
26 Mar (85)	4 Wed.	18 1	.8 48	6 Mar. (65)	5-Thur	279-2457	4333			
25 Mar (85) .	5 Thur	19 2	5 57	24 Mar (84)	4 Wed	318-9281	4934			
26 Mar (85) • •	0 Sat	1 8	8 6	13 Mar (72)	1 Sun .	189 6809	4335			
26 Mar (85) · ·	1 Sun	7 5	0 15	2 Mar (61)	5 Thur	65 3788	4336			
26 Mar (85)	2 Mon	14	2 24	21 Mar (80) .	4 Wed	100-0562	4337			
25 Mar (85) .	8 Tues	20 1	4 33	10 Mar (70) .	2 Mon .	314 4110	4338			
26 Mar (85)	5 Thur	2 2	6 42	27 Feb (58)	6 Fm	190 1838	4339			
26 Mar (85) .	6 Fm	8 8	8 51	18 Mar. (77)	5 Thur .	224 8162	4340			
26 Mar (85)	0 Sat	14 8	51 0	7 Mar (66)	2 Mon .	100 5891	4841			
25 Mar (85) • •	1 Sun	21	3 9	25 Mar (85) .	1 Sun .	135 2214	4342			
26 Mar (85) •	3 Tues	8 3	15 18	14 Mar (78) .	5 Tbur .	10.9443	4848			
26 Mar (85)	4 Wed	9 2	27 27	4 Mar (63)	3 Tuos .	225 2991	4344			
26 Mar. (85)	5 Thur .	15 8	39 3 6	23 Mar (8 2)	2 Mon .	259 9815	4345			
					<u>'</u> '		202			

		- 7-		CO	NCUB	BENT TE	AR			
		krama.	r your in				Joyiay S	ДĶ	VATBARA	Mean interculated (adhika) lunar
Kelı.	Śaka.	Chuitrádi Vakrama.	Mönhüdl solar Bongal.	Kolla	A.D.		Southern system.		Northern system	month,
1	2	3	3a	4		5	6		7	8a
4346	1167	1302	651	419	20	1244-45	38 Krödhin		42 Kilaka† .	***
4347	1168	1302	652	420		1245-46	39 Viśvāvasu		44 Sādhārana	5 Śrávana
4348	1169	1204	653	421	- 1	1246-47	40 Parabhaya		45 Virodhakrit	
4349	1170	1305	654	422	_ [1247-48	41 Playanga		48 Paridhātin	•
4350	1171	1306	655	}		1248-49	42 Kīaka .		47 Pramādin	2 Vaišākba .
4351	1000 000 32		1		1249-50	43 Saumya .		48 Ananda		
4352	1173	1209	}	1	-26	1250-51	44 Sādhārana		49 Rākshasa	10 Pausha
4853	1174	1303	1	1	3-27	1251-52	45 Virodhakut		50 Anala	
4354	1175	1310	0 659			*1252-53	46 Paridhāvin		51 Pingala	
4355	1176	131	1 66	0 42	3-29	1253-54	47 Pramādin		52 Kālaynkta	. 7 Āśvina .
4355	1177	131	2 66	1 42	0-20	1254-55	48 Ananda .	•	53 Siddhārthin	
4357	1178	3 131	3 69	2 43	0-31	1255-56	49 Rākshasa	•	54 Baudra .	
4358	117	9 131	4 66	3 48	1-32	*1256-57	50 Andla .		55 Durmatı	. 3 Jyështha .
4359	118	0 13.	15 B	4 4	32-33	1257-58	51 Pingala .		56 Dundubhi	
4350	1	13	16 6	85 4	33-34	1258 59	52 Kälayukta		57 Rudhirödgárin	12 Phālguna
4351		1	17 6	68 4	34-35	1259-60	53 Siddhärthin		58 Raktāksha	
4362	l	į	1	1	35-86	*1260-61	54 Randra .	•	59 Krödhana	
4363	1	1	ł	1	136-37	1261-62	55 Durmeti		60 Kshaya .	. 8 Kärttika
426. 4 38	}		}	}	437-38	1262-63	4		1 Prabhava	
438	_	1	- 1	- 1	438-39	1253-64	1	nn	2 Vibhava	
435	. } _	. \	1		439-40	1			3 Śukla .	. 5 Śrāvana
421	. 1	1	1324	672 673	440-41 441-42	1285-6			4 Pramoda	• "
434	_ 1	- 1	1325	674	442-43	}			5 Prajāpati	
43	70 1	1	1325	675	443-44	1	1		6 Angiras .	. 1 Chartra
7			Wes en			i .	Z VIDLAVA		. 7 Śrīmukha	•

^{†43} banm-a was suppressed in the north by the mean system. By the "true" system K Y 4346 (expired), A.D 1245-46, was called "faumya," 44 Sadhāraja heing suppressed. The next year was 45 Virôdhakni by both

XC-contd

CONVENIENT ATTEMPT OF THE PROPERTY OF THE PROP											
	C(Ommencem!	ent of the								
Мелч	SOLAR YEAR		MFAN IU-1-BOLAR Y CIVIL DAY ON WHICH			Kalı.					
Day and month, A.D.	Weck-day.	Time of mean Misha- samkränti.	Day and month,	Weel-day	a (hore=1, the index of the tithi)						
13	14	17	19	20	23	1					
		H. M S									
25 Mar. (85)	6 Fra	21 51 45	11 Mar (71) .	6 Fn	135 7043	4346					
28 Mar (85)	1 Sun .	4 3 54	28 Peb (69) · .	3 Tues	11 4272	4347					
26 Mar (85)	2 Mon .	10 16 3	10 Mar (78) .	2 Mon .	46 1096	4848					
26 Mar. (85)	3 Tues .	16 28 12	9 Mar (68) .	O fat .	280 4544	4349					
25 Mar (85) .	4 Wed	22 40 21	26 Feb (57) .	4 Wed	136 1872	4350					
28 Mar (85)	6 Fn .	4 52 30	16 Mar (75) .	3 Tues .	170 8696	4351					
28 Mar (85) .	O Sat.	11 4 39	5 Mar (64) .	0 Sat.	46 5925	4352					
28 Mar. (85) .	1 Fun .	17 16 48	24 Mar (83) .	6 Fra .	81 2748	4858					
25 Mar (85)	2 Mon	23 28 57	13 Mar (78) .	4 Wed	295 3297	4354					
26 Mar. (85)	4 Wed .	5 41 6	2 Mar (61) .	1 Son	171 3526	4355					
26 Mar (85)	5 Thur.	11 53 15	21 Mar (80) .	O Sat .	206 0849	4°58					
26 Mar (85)	6 Fm .	18 6 24	10 Mar (69) .	4 Wed	81-7577	4357					
26 Mar. (86)	1 Ean.	0 17 33	28 Feb (59) .	2 Mon	296 1126	4358					
26 Mar. (85) .	2 Mon	6 29 42	18 Mar. (77)	1 San .	830 -7 950	4359					
26 Mar (85)	3 Tues .	12 41 51	7 Mar (66) .	5 Thur	206 5178	4360					
28 Mar. (85)	4 Wed.	18 54 0	26 Mar. (85) .	4 Wod .	241 2002	4361					
26 Mar. (86) .	6 Fri	1 6 9	14 Mar (74) .	1 Sun	116 9231	4362					
28 Mar (85)	O Eat .	7 18 18	4 Mar (03)	6 Fr ₂	331 2778	4363					
26 Mar. (85)	1 San	13 30 27	22 Mar (81)	4 Wed	27 3283	4364					
28 Mar (85) .	2 Mon	19 42 36	12 Mar (71) .	2 Mon .	241 6831	4365					
28 Mar. (86) .	4 Wed	1 54 45	20 Feb. (60) .	6 Fri	117 4060	4366					
28 Mar. (85)	5 Thur	8 6 64	19 Mar. (78)	5 Thur	152 0883	4367					
28 Mar (85)	6 Fn.	14 19 8	8 Mar (67)	2 Mon .	27 8112	436R					
28 Mar (85)	O Sat	20 31 12	26 Feb (57) .	O Sat	242 1660	4369					
20 Mar (80) .	2 Mon	2 43 21	16 Mar (76)	6 Fri.	276 8483	4370					

	هر سرس			==		 		Andrew Agents of the second se	A 100 - 100
					CONCUI	RRENT 1E	AR		
Kalı	Śaka	Chaitrid Vikrama.	Meshadi solar year in		ollam	A D.	JONIAN FAR Southern system	Northern system	Nean Intransted (adhika) lunar month
	2	3		_ -	4	5	С	7	82
		-	- -		-				
4371	1192	132	7 6	76	144-45	1269 70	3 Śulla	8 Bhisa .	10 Papelia .
4372	1193	132	28 6	77	145 46	1270-71	4 Pramoda .	o Yavan	
4373	1191	132	20 6	78	146 47	1271-72	5 Prajāpati .	10 Dhátp	
4374	1195	133	30 6	79	447-48	*1272-73	6 Angiras	11 Irvara .	7 Asura .
4375	1196	133	31 6	380	448 49	1273 74	7 Śrimukha .	12 B-hudhānya	
4376	1197	13	32	581	449 50	1274-75	8 Bhava .	13 Pramšthm .	
4377	1198	13	33 	C82	450 51	1275 76	9 Invan	14 Vikrama	3 Jyështha .
4378	1199	13	34	683	451-52	*1276 77	10 Dhātp	15 Vrisha .	
4379	120	13	35	684	452 53	1277-78	11 Isvara	16 Chitrabhāna .	12 Paälgam .
4380	120	1 13	336	685	453 54	1278-79	12 Bahudhanya .	17 Sadhāna	
4381	120	2 1	337	686	454 55	1279 80	13 Pramathin	18 Tärana .	
4382	120	3 1	338	687	455 58	*1230 81	14 Vikrama .	19 Pārthiva	8 Käritika .
4383	120)4 1	339	688	456-57	1281-82	15 Vrisha .	20 Vyaya .	
4384		05 1	340	689	457-58	1282-83	16 Chitrabhānu	21 Sarvajit .	•
438		1	1341	690	458 59	1283 84	17 Subhānu	22 Sarradbārm	5 Srāvana .
438		ı	1342	691	459 60	*1284 85	18 Tārana	. 23 Virödhin	
438 438	1	1	1343	692	460 61	1285 86		. 24 Vikrita	
438	_ } `	- 1	1344	693	461 62	}	1	25 Khara	. 1 Chaitra .
43	1	211	1345 1346	694	462-63		1	26 Nandana	•
43)	212	1347	695 696	463 64	1	i	27 Vijaya .	. 10 Pausha
	1	213	1348	697	464-65		ł	. 28 Jaya .	•
		214	1349	698	1	ļ	1 '	• 29 Manmatha	• ••
4.5		215	1350	699	1			. 30 Duroiukha	6 Bliffdrapada.
ৰ	1	1216	1351	700	1	1	1	31 Hēmalamba . 32 Vilamba	• • • • • • • • • • • • • • • • • • • •
1			<u> </u>	! 	<u> </u>	<u> </u>	<u> </u>	- Triambia	-1

XC-contd

1												
					C	OMB	FNO	CEM:	ENT OF THE			
		Mr.	s KA	OLAH TRI	e.				MEAN LUNI-SOLAR CIVIL DAY ON WIII			Kalı.
Day 1	and mor	ıtb,	***************************************	Wook-da	3.	Time of mean Misha- samkränti			Day and month, A D	Weck day.	a (here=t, the index of the tithi)	
	13		; 	15	-		17		19	20	23	1
26 Mar 26 Mar	(85)	•	•	3 Tues 4 Wed		H 8 15	M 55 7	\$ 30 39	5 Mar (64) . 24 Mar (63)	8 Tues 2 Mon	152 5712	4871 4872
26 Mai		•	•	5 Thur	٠	21	19	49	18 Mat (72) . 2 Mar (62) .	6 Fri	. 62 9765	4878 4874
26 Mar 26 Mar	•	•		0 Sat 1 Sun	•	3	81 44	57 6	21 Mar (80)	3 Tues	812 0137	4875
1	(85)		·	2 Mon.	•	15	56	15	10 Mar (69)	0 Sat.	187 7865	4376
26 Mn				3 Tues,	•	22	8	21	27 Feb (58) .	4 Wed.	63 4593	4377
26 Ma		•	1	5 Thur		4	20	83	17 Mar (77)	8 Tues	98 1417	4378
26 Mar	r (86)	•		6 Pri		10	32	42	7 Mar (66)	1 Sun	312 4966	4379
26 Na	r (85)			0 Sat.		16	44	51	25 Mar (84) .	6 Fr	8 5470	4880
26 Ma	r (85)	•		1 Sun	•	22	57	0	15 Mar (74) .	4 Wod	222 9018	4881
26 Ma	r (86)	•		3 Tuos		5	8	9	8 Mar (63) , .	1 San	98 6246	4382
26 Ma	r (85)			4 Wed.		11	21	18	22 Mar (81) .	O Sat .	188 3071	4883
26 Ma	r. (85)	•	•	5 Thur	• ,	17	33	27	11 Mar (70) .	4 Wed .	9 0299	4384
26 Ma	r (85)			6 Fn	•	23	45	36	1 Mar (60)	2 Mon	223 3847	4885
26 Ma	r, (86)	•	•	1 Sun	•	5	57	45	19 Mar (79)	1 Sup	258 0671	4886
26 Ma	r (85)	•	•	2 Mon		12	9	54	8 Mar (67) .	5 Thur .	183 7900	4887
26 Mo	r (85)	•	•	8 Tues	•	18	22	8	25 Feb. (56) .	2 Mon	9 5127	4388
27 Ma	r (86)	•	•	5 Thur	٠	0	84	12	16 Mar (75) .	1 Sun .	44 1952	4389
26 Ma	r (86)	•	•	6 Fr2-	•	6	46	21	6 Mar (65) .	6 Fri .	258 5500	4890
26 Ma	ır (85)	•	•	0 Sat.	•	12	58	80	24 Mar (83) .	5 Thur.	293 2324	4391
I	ır (85)		•	1 Sun.	•	19	10	89	13 Mar (72) .	2 Mon .	168 9562	4392
27 Ma	ır. (86)	•	٠	3 Tues	•	1	22	48	2 Mar (61) .	6 Fr	44 6781	4393 4894
ì	ır. (86)		•	4 Wed.	•	7	84	57	20 Mar (80) .	5 Thur	79 3605	4895
26 Mr	ır. (85)	•	•	5 Thur.	•	13	47	6	10 Mar (69) .	3 Tues .	293-7152	-2000

								===				Ī	
					CO	NCUR	RENT YE	AR					
		91110		year in					Joyian Sa	ir.	ltsaba.	(Mean intercalated adhika) lunar month.
Kalı.	Saka	filte rate Wiles and	Chartman viki	Möshadi solm Bongal	Kol	lam	A D		Southern system.		Northern system.	_	
1	2	-	3	3a	1	4	5		6	<u> </u>	7	- -	8a
4396	121	7 1	352	701		69-70	1294-95	1	3 Jaya 9 Manmatha .	1	3 Vikāriu 4 Šārvarin		3 Jyështha
4397	121	_ _	353	702	`\	70-71	1295 96 *1296 97	1	O Durmulha		5 Plava •	$ _{1}$	1 Mágha
4399	121	1	354	703	i	71-72 72-73	1297-98	1	1 Hemalamba	ı,	36 Śabbakyit		
4399	122	1	1355 1356	70		73-74	1293-99		2 Vilamba	$\cdot \cdot $	37 Śōbhana		
4400 4401	122	_	1357 1357	70	1	74-75	1299-1300	1	3 Vikāmn .		38 Krōdhm		8 Kārttīks
4402	12	_	1357 1358	1	-	475-76	*1300-01	. 8	4 Śārvarın		39 Viśvārasu	\cdot	
4403	1	- 1	1359	1	3	476 77	1301-0	2 8	35 Plava		40 Parābhava		•
4401	12	25	1350	70	9	477-78	1302 0	3 :	36 Śubhaknt		41 Plavanga	\cdot	4 Āshādha •
4405	12	226	1361	. 71	10	478-79	1303-0	1 :	37 Śōbhana	١	42 Kilaka .	-	***
4405	1:	227	1369	2 7	11	479-80	*1304-0	5	38 Krōdhin	-	43 Saumya.	1	
4407	1	228	136	3 7	12	480-81	1305-0	6	39 Vistātasu		44 Sādhārana	1	1 Chartra •
4405	3 1	223	136		13	481-82	1	~ }	40 Parābhava		45 Virodhakrit	-	10 Pausha ‡
410		230	136	1	74	482-88			41 Playanga	٠	46 Paridhävin 47 Pramädin	1	10 1 8 18 18 1
441	•	1231	136	.	715	483 8			42 Kilala .		48 Ānanda .		•
441	- 1	1232 1233	1	1	716 717	484-8 485-8	1	1	43 Saumya 44 Sādhārana	•	49 Rākshasa		6 Bhādrapada .
44	- 1	1234	1	369	718	496-8	1	1	45 Virodhaknt		50 Anala		
49	14	123	5 1:	370	719	487-1	1		46 Parıdhāvın		51 Pingala .		••
4	115	123	6 1	371	720	488-	89 1313	-14	47 Pramādın		52 Kālayukta	•	8 Jyēshtha
4	9 <u>1</u> 2	123	7]	372	721	489	90 1314	l-15	48 Ānanda .	•	53 Siddhārthın		
	417	123	1	1873	722	1	1		1		54 Randra .	•	11 Māgha
	M18	12	- 1	1974	72	1			}		65 Durmati	•	
	4419 442)	ì	- 1	1375 1376	72 72	l	1	7-18	1 -		. 56 Dandabhi	;	8 Kārttika
ت.		1	1	2010	1 /2	3 33	131	&-19 	52 Kālayukta		. 57 Rudhırödgi	17D	7 Martina

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COMMENCEMENT OF THE										
	C()MMENCI	SM.	ent of the						
Mean	ROLAR TEAD			MLAN LUNI-SOLAB Y	Kalı					
Day and mouth, A.D	Week day	Timo oi mean Mës samkran	ha-	Day and month, A D	Wook-day.	a (here = t, the index of the tithi)				
13	11	17		19	20	23	1			
26 Mar (85) . 27 Mar (86) . 26 Mar (86) . 28 Mar (85) . 20 Mar (85) . 27 Mar (86) . 28 Mar (86) 26 Mar (85) 27 Mar (85) 26 Mar (85) 27 Mar (86) 26 Mar (86) 26 Mar (86) 26 Mar (86) 26 Mar (86) 26 Mar (86) 26 Mar (86) 26 Mar (86) 26 Mar (86) 26 Mar (86) 26 Mar (86)	6 Fri 1 Sun 2 Mon 3 Tues 4 Wod 6 Fri 0 Sat 1 Sun 2 Mon 4 Wed 6 Thur 6 Fri 0 Sat. 2 Mon 3 Tues 4 Wed 5 Thur	2 11 8 23 11 35 20 47 3 0 9 12 15 21 21 36 3 48 10 0 16 12 22 25 4 37 10 49 17 1	\$ 15 24 33 42 51 0 9 18 27 36 45 54 3 12 21 80	27 Feb (58) 18 Mar. (77) 6 Mar (66) 25 Mar (84) 15 Mar (74) 4 Mar (63) 22 Mar (82) 11 Mar. (70) 1 Mar. (70) 1 Mar. (78) 8 Mar (68) 25 Feb. (56) 16 Mar (75) 5 Mar (64) 23 Mar (83) 13 Mar (72) 2 Mar (61)	0 Sat 6 Fr: 3 Tacs 2 Mon 0 Sat 4 Wed 3 Tacs 0 Sat 5 Thur 3 Tacs 1 Sun 5 Thur. 4 Wed 1 Sun. 0 Sat. 5 Thur 2 Mon	169 4381 204 1205 79 8438 114 5257 328 8806 204 6034 239 2859 115 0087 829 3635 25 4189 239 7688 115 4915 150 1739 25 8968 60 5791 274 9340 150 6569	4396 4397 4398 4399 4400 4401 4402 4403 4404 4405 4406 4407 4408 4409 4410 4411 4412			
27 Mar (86) . 26 Mar (86)	0 Sat.	1	48 57	21 Mar. (80) . 9 Mar (69) .	1 Sun 5 Thur .	185 3393 61 0621	4413 4414			
26 Mar (85)	2 Mon	17 50	6	27 Feb (58)	3 Tues	275 4169	4415			
27 Mar (86) .	4 Wod.	0 2	15	18 Mar (77) .	2 Mon .	310 0993	4416			
27 Mar (86)	5 Thur.	6 14	24	7 Mar. (66)	6 Fra	185 8221	4417			
26 Mar. (86)	6 Fri.	12 26	83	25 Mar (85) .	5 Thur	220 5045	4418			
26 Mar. (85)	. 0 Sat	18 38	42	14 Mar (73) .	2 Mon .	96 2274	4419			
27 Mar (86)	2 Mon	0 50	51	4 Mor (63) .	O Sat	810 5822	4420			

	_				CONC	URRENT Y	ear ————————			
		rama.		year in			Jovian Saŭ	TVATSABA.	Mean intercalated (adhika) lunar	
Kalı.	Śaka	Chaitrail Vikrama.		Mēshādi solat Bongal	Kollam.	A.D	Soutbern system	Northern system	month	
1	2	8		6"	4	5	6	7	80	
4421	1242	18	77	726	494-95	1319 20	53 Siddhärthm	58 Raktākeba		
4422	1249	1 18	378	727	495-96	#1320-21	54 Raudra	59 Krödhana -	•	
4423	124	. 1:	379	728	496-97	1821-22	55 Durmatı	60 Kshaya	4 Āshādha .	
4424	124	5 1	380	729	497 95	1322-23	56 Dundubhı	1 Prabhava	•••	
4425	124	6 1	381	730	}		57 Eudhirödgärin	2 Vibhava		
4428	124	` -	382	731			58 Raktāksha	3 Śukla •	1 Chartra	
4427	124	1	.888	782			59 Krödhana	4 Pramoda		
4428			1384	733			60 Kshaya	5 Prajāpati	9 Mārgašīra	
4423		1	1385	1	_	====	1	6 Anguras	****	
4430			1386	73	1		1	,7 Śrīmukha	6 70 73	
443: 443:			1387 	1	1			8 Bharat	6 Bhādrapada	
443			1888 1388			2000		10 Dhätri		
448	- } -	255	1390			1	}	. 11 Tevara	2 Varšālha	
43	_ _	256	189		40 508-			12 Bahudhanya 13 Pramathin	anabets v	
41	- [257	189	_ { ``	41 509	2000 0		. 14 Vikrama	11 Māgha	
44	37 1	258	139	1	42 510		1	15 Presha		
45	88 j	259	139	4 7	48 511		\	. 16 Chitrabhann	***	
4.4	39 ;	L280	138	5 7	44 512	13 1337-3	1	17 Subhānu	7 Āśvina	
4	M40 1261 1896 745		45 513	14 1338-3	9 12 Bahudhānya	18 Tārans	.1			
	1	1282	131	97 7	48 514	15 1889-4	3 Pramāthm	19 Pärthıva		
	1	1263	13	98 7	747 515	-16 *1840-4	1 14 Vikrama	. 20 Vyaya .	4 Āshādha	
	}	1264	13	1	748 516	-17 1841-4	2 15 Vrishs	21 Sarvejit .		
		1265	14		749 517	-18 1842-4	3 16 Chitrabhanu	. 22 Sarvadhārm	. 12 Phälguna	
	445	128E	14	CI	750 518	-19 1343-4	4 17 Subhānu	. 23 Vırödhin	.1 .	

^{† 2} Ynvan was expressed in the north by the mean system By the "true" system KY 4431 (expired), A.D 1330-81 was called "Yuvan," and 10 Dhatri was suppressed. The next year was 11 Isvara by both systems.

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The state of the s	(COMME	NCE	MENI OF THE					
Mean	BOLAR TRAR				MF IN LUNI-SOI AR YEAR (MFAN SUNRISE OF THE CIVIL DAY ON WHICH CHAITRA SUELA 1 ENDS)				
Day and mouth,	Week-day	Tim mean l samk		Day and month,	Wook-day.	a (here = t, the index of the tithe)			
13	14	1	7	19	20	23	1		
27 Mar (86) . 26 Mar (86)	3 Incs .	H. 1 7 13 1	3 0	22 Mar (81) . 11 Mar (71)	5 Thur 8 Tues	6 6326 220 9874	4421 4422		
26 Mar (85)	5 Thur	19 2	7 18	28 Feb (59)	0 Sat	96 7103	4423		
27 Mar (86) .	O Sat.	1 3	9 27	19 Mar (78)	6 Fr:	131 3926	4424		
27 Mar (86)	1 Sun .	7 5	i 86	8 Mar (67)	3 Tues	7 1155	4425		
26 Mar (86)	2 Mon	14	3 45	26 Feb (57) .	1 Sun	221 4703	4426		
26 Mar (85)	3 Tues	20 1	5 54	16 Mar (75)	0 Sat	256 1527	4427		
27 Mar (86)	5 Thur	2 2	3	5 Mar (64)	4 Wed	181 8755	4423		
27 Mar (66)	6 Fr	8 4	12	24 Mar (83)	3 Tues	166 5579	4429		
26 Mar. (86)	O Sat.	14 5	2 21	12 Mar (72)	0 Sat.	42 2808	4430		
26 Mar. (85)	. 1 San.	21	4 30	2 Mar (61)	5 Thur	256 6856	4181		
27 Mar (86)	3 Tues	3 10	3 89	21 Mar (80)	4 Wed	291 \$180	4432		
27 Mar (86)	4 Wed	9 2	3 48	10 Mar. (69)	1 Sun	187 0409	4488		
26 Mar (86)	5 Thur	15 40	57	27 Feb (58)	5 Thar	42 7637	4434		
26 Mar (85) .	6 Frı	21 5	3 6	17 Mar (76)	4 Wed	77 4160	4485		
27 Mar. (86)	1 Sun	4	5 15	7 Mai (66)	2 Mon	291 8009	4436		
27 Mar (86)	2 Mon	10 1	7 24	25 Mar (85) .	1 Sun	326 4833	4487		
26 Mar (86)	3 Tues .	16 29	88	14 Mar (74)	5 Thur	202 2062	4438		
26 Mar (85)	4 Wed .	22 47	42	3 Mar (62)	2 Mon	77 9289	4439		
27 Mar (86)	6 Fri	4 5	51	22 Mar (81)	1 Sun	112 6114	4440		
27 Mar (86)	0 Sat	11 (3 0	12 Mar (71)	6 Fri	326 9662	4441		
26 Mar (86)	1 Sun	17 18	3 9	29 Feb (60) .	8 Tues	202 6890	4442		
26 Mar (85)	2 Mon	23 30	18	19 Mar (78)	2 Mon	237 3714	4448		
27 Mar (80)	4 Wed.	5 4	2 27	8 Mar (67) .	6 Fr.	118 0948	4444		
27 Mar (86)	5 Thur	11 8	4 36	27 Mar (86)	5 Thur	147 7767	4445		

	CONCURRENT YEAR											
			anna.	your in				Jovian ^c ań	VATSABA	Mean intercalated (adhika) lunar		
Kalı	Śaka		Chatridi Vikuma.	Mishidi solar yoar Bengal	Kolla	m	AD.	Sonthern system	Northern system	month.		
1	2	_	3	3a	4		5	6	7	84		
4445	126	- - 7 1	1402	751	519	20 4	1344-45	18 Tārana .	24 Vikrita			
4117	126	B 1	1403	752	520	-21	1345-46	19 Pārthīva	25 Khara .	9 Mārgašīra .		
4448	126	9 :	1404	753	521	-22	1346 47	20 Vyaya	26 Nandana			
4449	127	0	1405	754	522	-23	1347-43	21 Sarvajit	27 Vijaya			
4450	127	1	1496	755	523	-24	*1348-49	22 Sarvadhārın	28 Jaya	6 Bhādrapada		
4451	127	2	1407	756	524	-25	1349-50	23 Vırödhın	29 Manmatha -			
4452	12	73	1403	757	52	5-26	1350-51	21 Vikrita	30 Durmukha			
4453	12	74	1409	758	52	6-27	1351-52	25 Kbara	31 Hēmalamba	2 Vaiéikha		
4454	12	75	1410	75	52	7-23	*1352-53	26 Nandana .	32 Vilamba	•		
4455		76	1411	L 76	0 52	8-29	1353-54	27 Vijaya	33 Vikārm	11 Mõgha .		
445	- 1 -	277	141	1	_	9-30	1354-55	28 Jaya .	34 Śārvarın	-		
445	· [-	278	141	1	- 1	30-31	1355 56	29 Manmatha	35 Plana			
415	-	279	141	-		31-32	*1356-57	30 Durmukha	36 Subhakrit	7 Āśvina		
445 445		280	141	1	- 1	32-33	1357-58	31 Hēmalamba	37 Šõbbana			
41	· '	1281 1282	1	1		33-34	1358-59		. 38 Kródhin .			
44	- 1	1283 1283			- 1	34-35	1359-60	1	39 Viśvāvasu	4 Āshādba .		
	- 1	1284	1	- 1	1	535-36	*1360 61		. 40 Parābhava			
4	161	128	- 1	•	1	536-37 537-39	1361-6		41 Playanga	12 Phālguna		
4:	165	125	. 1	- 1	- 1	538-39	ì		42 Kilaka			
4	¥6	128	i	1		539 49	}	1	. 43 Saumya 44 Sādhārana	0.35		
4	467	125	3 14	i	. 1	540-41	1	1	45 Virödhakrit	9 Mā-gašīra		
4	153	129	9 1	424	773	541-42	1	1	46 Paridhāvin			
	459	129	0 1	425	774	542-43	1		47 Pramādin	. 5 Srāvana		
	470	122	01 1	423	775	543-44	4	· ·	18 Ananda	·		

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and the second second second second second second second second second second second second second second seco	C	OMMENCE	MENT OF THE						
Mean	SOLAR TFAR,		Mean Luni solar : Civil day on Whic	Mean Luni solar year (mean sunrise of the civil day on which Chaitra sulla 1 ends)					
Day and month, A D.	Weok day	Irme of mean Mirhe samkränti	Day and month,	Week-day	a (here = t, the index of the tithi)				
14	14	17	19	20	28	1			
26 Mar (86) 27 Mar (86)	6 Fri .	H M S 18 6 44 0 18 5	15 Mar (75) .	2 Mon. 0 Sat	23 4995 237 8543	4446 4447			
27 Mar (86) .	2 Mon.	6 31	24 Mar (83)	6 Fr	272 5867	4448			
27 Mar (86)	3 Tues.	12 43 1	2 13 Mar. (72)	3 Tues .	148 2595	4449			
26 Mar. (86)	4 Wod.	18 55 2	1 Mar (61)	0 Sat.	28 9824	4450			
27 Mar. (86) .	6 Fri	1 7 8	20 Mar (79) .	6 Fri .	58 6648	4451			
27 Mar. (86)	0 Sat	7 19 8	9 10 Mar (69) .	4 Wed .	273 0197	4452			
27 Mar (86)	1 San	13 31 4	27 Feb (58) .	1 Sun .	148 7424	4453			
26 Mar (86) .	2 Mon	19 48 5	7 17 Mar (77)	0 Sat	188 4248	4454			
27 Mar (86)	4 Wed	1 58	6 Mar (65) .	4 Wed .	59 1477	4455			
27 Mar (86)	5 Thur .	8 8 1	5 25 Mar (84)	3 Tues .	93 8300	4456			
27 Mar. (86)	6 Fri	14 20 2	4 15 Mar (74) .	1 Sun.	308 1849	4457			
28 Mar. (86) .	0 Sat	20 32 8	8 8 Mar. (68)	5 Thur .	188-9077	4458			
27 Mar (86)	2 Mon	2 44 4		4 Wed .	218.5902	4459			
27 Mar. (80) .	- 8 Tues .	8 56 5	1 11 Mar. (70) .	1 Sun .	94 8129	4460			
27 Mar. (86)	4 Wed .	15 9	0 1 Mar. (60)	6 Fri .	808 8678	4461			
26 Mar (86) .	5 Thur.	21 21	0 18 Mar (78) .	4 Wed	4 7182	4462			
27 Mar (86) .	0 Sut	8 88 1	8 8 Mar (67) .	2 Mon.	219 0780	4463			
27 Mar (86)	1 San	0 45 2	7 27 Mar (88)	1 Suv .	258.7554	4464			
27 Mar (86)	2 Moa.	15 57 8	6 16 Mar (75)	5 Thur	129 4788	4465			
26 Mar (86)	8 Taes.	22 9	5 4 Mar (64)	2 Mon.	5 2011	4466			
27 Mar (86) .	5 Thur	. 4 21	4 23 Mar (82)	1 Sun	1	4467			
27 Mar. (86) .	6 Fri	. 10 94	8 18 Mar (72) .	6 Fr.		4468			
27 Mur (86) .	1	1	2 2 Mar (61)	3 Tues .	1	4489			
2d Mar (86)	. 1 Fan	. 22 18	21 20 Mar. (80)	. 2 Mon	164-6435	6170			

					CO	NCUR	RENT YE	AR	_		
				your in				Jovian Sa	M'	FATSARA	Mean intercalated (adhika) lunar
Kalı.	Śak		Chattridii Vakrams.	Mishādi solar Bongal	Kolia	am	A.D	Southern system		Northern system	month
1	2		3	80	4		5	6		7	8a
4471	129	- - 2	1427	776	544	1-45	1869-70	43 Saumya		49 Rākshasa	
4472	12	98	1428	777	548	5-46	1370-71	44 Sādhārana		50 Anala .	2 Varšākha
4478	12	94	1429	778	544	6-47	1371-72	45 Virodhakrit	\cdot	51 Pıngala	
4474	12	95	1430	779	54	7-48	*1372-78	46 Paridhāvin	١.	52 Kālayukta .	10 Pausha
4475	12	96	1431	780	54	8-49	1373-74	47 Pramādin	٠	53 Siddhärthin .	
4476	15	297	1432	78	1 54	19 EO	1374-75	48 Ananda .		54 Raudra .	1
4477	122	198	1433	78	2 55	50-51	1875-76	49 Rāksbasa	\cdot	55 Durmatı	7 Aśvma
4478	1	233	1434	78	3 5	51-52	*1376-77	50 Anala .	•	56 Dundubhi	•
4479	1-	300	1435	}	-	52-53	1377-78	1		57 Rudhırödgärin	
448		801	1	1	1	53-54	1378-79	1	•	58 Raktāksha	3 Jyështha .
448 448	1	1802	1	` } ``		54-55	1379-80	1	į	59 Krödhana	10 70 70
448	_	1803 1804	1	1	1	555-56 556-57	*1880 81		•	60 Kshaya 1 Prabhaya	12 Phālguna
44	1	120	1	`}`		557-58	1381-82			2 Vibhava	
44	- {	130	`\'			558 59	1	1	· n	3 Śukla	9 Mārgašīra .
44	85	180		_ { .		559-60			-	4 Pramoda	- margana .
4.4	57	180	8 14	ł	792	560 61	1		•	5 Prajāpati	-
4	188	130	20 14	14	793	561-62	1386-8	1	•	6 Anguras	5 Śrāvans
	4 89	131	10 14	45	794	562-68	1887-8	3 1 Prabhava		7 Śrimukha	
	4 <u>9</u> 0	13	1	146	795	563-64	*1388 8	2 Vibhava	•	8 Bhāva	
	491	1	1	447	796	584-6	- (3 Śnkla .		9 Yuvan	2 Varšākha
	ио2 и 93	1	- 1	448	797	565-6	1	1		10 Dhātrı .	
	1494	1	- 1	450	798	566-6	1	1		. 11 Isvara .	10 Pansha .
	4195	4	\	451	799 800	567-6 568 6	1	1 "		. 12 Bahudhānya	
-		<u>_</u>	<u>. </u>		330	"" "	By 1393-	94 7 Srimukha	_	. 13 Pramāthm	• • • • • • • • • • • • • • • • • • • •

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	(COMMENCE	MENT OF THE								
Медч	SOLAR YEAR		Mean Luni-solab x			Kalı.					
Day and month, A D	Wook-day	Time of mean Mesha- samkränti	Day and month,	Wock-day	a (here=t, the index of the tithi)						
13	14	17	19	20	23	1					
27 Mar (86)	3 Tues	H. M S 5 10 30	9 Mar (68)	6 Fri	40 3684	4471					
27 Mar (86)	4 Wed	11 22 89	27 Feb (58)	4 Wed.	254 7212	4472					
27 Mar (86)	5 Thur	17 34 48	18 Mar (77)	3 Tues.	289 4036	4478					
26 Mar (86)	6 Fri	23 46 57	6 Mar (66)	0 Sat.	165 1264	4474					
27 Mar (86)	1 Sun	5 59 6	25 Mar (R4)	6 Fri.	199 8088	4475					
27 Mar (86)	2 Mon	12 11 15	14 Mar. (73)	S Tues,	75 5817	4478					
27 Mar (86)	3 Tues	18 23 24	4 Mar (63)	1 Sun	289 8864	4477					
27 Mar (87)	5 Thur	0 85 33	22 Mar (82) .	0 Sat	824 5680	4478					
27 Mar (86)	6 Fri	6 47 42	11 Mar (70) .	4 Wed.	200 2917	4479					
27 Mar (86)	O Sat .	12 59 51	28 Feb (59)	L bun .	76 0146	4480					
27 Mar (86)	1 San	19 12 0	19 Mar (78) .	O Sat.	110 6969	4481					
27 Mar (87)	3 Tues.	1 24 9	8 Mar (68)	5 Thur.	825 0518	4482					
27 Mar (86) .	4 Wed.	7 36 18	26 Mar (85)	3 Tuos.	21 1022	4488					
27 Mar (86)	5 Thar	18 48 27	16 Mar (75) .	1 Sun .	235 4571	4484					
27 Mar (86)	6 Fri .	20 0 36	5 Mar (64)	5 Thur.	111 1798	4485					
27 Mar (87)	1 Sun .	2 12 45	23 Mar (88)	4 Wed.	145 8623	4486					
27 Mar (86)	2 Mon	8 24 54	12 Mar (71)	1 Sun	21 5851	4487					
27 Mar (86)	3 Tues	14 37 8	2 Mar (61)	8 Fri.	285 9899	4488					
27 Mar (88) .	4 Wed	20 49 12	21 Mar (80)	5 Thur	270 6223	4489					
27 Mar (87)	6 Fm .	3 1 21	9 Mar (69)	2 Mon	146 3452	4490					
27 Mar (86)	0 Eat	9 13 80	26 Feb (67)	Fr.	22 0680	4491					
27 Mar (86) .	1 Sun	15 25 89	17 Mar (76)	5 Thur	56-7503	4492					
27 Mar (86) .	2 Mon .	21 37 48	7 Mar. (66)	Ines .	27] 1052	4493					
27 Mar (87)	4 Wed	3 49 57		2 Mon.	805 7876	4494					
27 Mar (86)	5 Thur .	10 2 6	14 Mar (78)	3 Fri	181 5104	4495					
	<u> </u>										

TABLE

			<u></u>	CONC	CURRENT	YEAR		
		rama	year ın			JOVIAN SA	MVATSABA	Mean intercalated
Kalı	Śaka	Chattrādı Vikrama	Mëshudi solar Beng 11	Kollam	A D	Southern system	Northern system	(adh:ka) lunar month
1	2	3	3a	4	5	6	7	Sa
4496 4497	1317 1318	1452 1453	801 802	569-70 570-71	1394-95 1395 96	8 Bhāva . 9 Yuvan	14 Vikrama 15 Vrisha .	7 Āsvinsi
4198	1319	1454	803	571-72	*1396-97	10 Dhātri .	16 Chitrabhānu	
4499	1320	1455	804	572-73	1397-98	11 Isvara	17 Subhānu	3 Jyēshtha
4500	1321	1456	805	573-74	1398-99	12 Bahudhānya .	18 Tārana	
4501	1322	1457	806	574-75	1399-14/)0	13 Pramāthin	19 Pärthiva	12 Phälguna .
4502	1323	1458	807	575-78	*1400-01	14 Vikrama .	20 Vyaya	, .

XC-concld

	COMMUNCEMENT OF THE													
Neav	SOLAR TEAR		MPAN LUNI SOLAR 1 CIVIL DAY ON WHI	INRISE OF THE IELA 1 ENDS).	K ali.									
Day and month, A D	Week-day	Time of mean Mêsha- samkränti	Day and month, A.D	Week-day	a (horo = t, the index of the tithi)									
13	1,5	17	19	20	23	1								
27 Mar (86) 27 Mar (86) 27 Mar (87) 27 Mar. (86)	6 Fn. 0 Sat. 2 Mon . 3 Tues . 4 Wed	H M S 16 14 15 22 26 24 4 88 88 10 50 42 17 2 51	3 Mar (62) . 22 Mar (81) . 11 Mar (71) . 28 Feb (59) . 19 Mar (78) .	8 Tues . 2 Mon 0 Sat . 4 Wod 8 Tues .	57 2838 91 9157 805 2704 181 9938 216 6757	4496 4497 4498 4499 4500								
27 Mar (86) . 27 Mar (87)	5 Thur . 0 Sat	23 15 0 5 27 9	8 Mar (67) . 26 Mar (86) .	0 Sat	92 3086 127 0810	4501 4502								

TABLE XCII

CENTURY-TABLE.

Value of a = t at beginning of claturies KY, 16. At mean sunrise on day of occurrence of mean Mesha-sameranti (mean sun at 0°) in first year of century. [Centuries 38, 44, were defective, the rest common]

Beginning of K Y century	Beginning in A D	Week- day	a (= t)
37	599	(0)	6228 4770
38	699	(0)	5100-3761
39	799	(6)	3633 6438
40	899	(6)	2505 5425
41	999	(6)	1377 4416
42	1099	(6)	249 3408
43	1199	(6)	9121 2399
44	1299	(6)	7993 1391
45	1399	(5)	6526 4063

For odd years of centuries use the Siddhanta-Śiromani Table LVII-B (above, Vol XV)

TABLE XCIII

MEAN SUNRISE VALUES OF a (DISTANCE OF IMEAN MOON FROM MEAN SUN) IN 10,000 THE OF CIRCLE FOR A MONTH PREVIOUS TO THE DAY ON WHICH MEAN MESHA-SAMKRANTI OUCDERED

Interval of days from mean Mēsha- samkrānti day	Week- day	a (mean sunrise value)	Interval of days from mean Mēsha- samkrānti day	Week- day	a (mean sunrise value)
1	2	3	1	2	8
}	<u>'</u>				
31	(4)	9502 4085	15	(6)	4920 5202
30	(5)	9841 0404	14	(0)	5259 1522
29	(5) (6) (0)	179 6724	13	(1)	5597-7842
28	(0)	518 3044	12	(2)	5936 4162
27	(1)	856 9364	11	(8)	6275.0482
26	(2)	1195 5684	10	(4)	6613 6801
25	(3)	1534 2004	9	(5)	6952 3121
24	(4)	1872 8324	8 7	(4) (5) (6)	7290 9441
23	(5)	2211 4643	7	(0)	7629 5761
22	(6)	2550 0968	6	(1)	7968 2081
21	(0)	2888-7283	5	(2)	8308 8401
20	(1)	8227 3603	4	(8)	8645 4721.
19	(2)	3565 9923	3	(4)	8984 1040
18	(3)	3904 6243	3 2 1 0	(5) {	9322-7360
17	(4)	4243 2563	1	(6)	9661 3680
16	(5)	4581 8882	O	(0)	0-0
				[1

The use of this Table is explained in Example 2 of this article, and in Example 1 of article on the First Arya-Siddnanta, mean system (above, Vol XVI).

TABLE XCIV.

Time-equivalents of the tithi (a or t), nakshatra (n), and roga (y) units.

In very close cases it is sometimes necessary to calculate the exact moment of the beginning and ending of tithis, nakshatras and yōgas, with greater accuracy than can be obtained by the use of Table X, Indian Calendar, or Table LXX (above, Vol. XVI, p. 216), where the time-equivalent of the unit, respectively, is given only in hours and minutes. My general working Tables for several of the Hindu astronomical Siddhāntas already published yield results, stated in measurement by 10,000ths of the circle, with an accuracy extending to four places of decimals, and the following Table enables the result to be translated into time down to a fraction of a second. It may be used for all astronomical authorities

The tithi-index unit

The tithi-unit is 10,000th of a mean lunation. The mean lunation, according to the Aryand Sūrya-Siddhāntas, occupies 29d 12h 44m 2°79. The unit, or 10,000th part of this, is 4m 2524046, or 4m 15°144279

The nakshatra-index unit

The moon's nakshatra, or her position in the heavens, mean or true, is found by adding the tithi-index, a or t, to the index of the sun's longitude, s, mean or true Both these values are found in the ordinary course of calculation for a date

The mean nakshatra-vatue n = 10,000 is reached in 27^{d} 7^{b} 43^{m} 12^{s} 3 In this period the sun's mean motion amounts, in 10,000ths of circle measurement, to 748 0087 (Table XLIV above (Vol. XIV)) and the moon's mean distance from mean sun increases (Table LIV A, B (Vol. XV)) to 9251 9913 Total 10,000

 27^d 7^h 43^m 12^s $3=39343^m$ 205, and this divided by 10,000 fixes the time-equivalent of the nakshatra-unit as 3^m 9343205, or 3^m 56° 05923

The yoga-index unit

Similarly the $y\bar{o}ga$ -chakra is estimated by the $S\bar{u}rya$ - $Siddh\bar{a}nta$ (Indian Calendar, p 62, § 113) as occupying 36605116 minutes of time, or 25^d 10^h 5^m 6^s 96 1 The $y\bar{o}ga$ -unit therefore is 3^m 6605116, or 3^m 39^s 6307

¹ The yoga formula is y = s (sun's long) + n (moon's nakshatra), and, since n = s + a, y = 2s + a In the period noted it will be found by calculation, using Table XLIV (above, Vol XIV), that the mean sun s arrives, in 10,000ths of circle measurement, at long 695-9511, and by using Table LXIV (Vol XVI) that in the same period the mean moon has increased her distance from mean sun (a) by 8608 0984. Twice s = 1391 9022, and this + 8608 0964 (the value of a) = 9999-9988, practically 10,000 exactly Table LXIV was prepared according to the First Arya-Siddkānia Using Siddhānta-Śirōmani and Brahma Siddhānta estimates (Table LIV) the total amounts to 10,000-0015, I have as yet to similar Table according to Sīrýa-Siddhānta requirements, but from what has been said it may be assumed that its estimate of the time occupied by one yōgo-chakra (=10,000) is correct.

TABLE XCIV-A.

TIME-EQUIVALENTS

TITUI-INDEX UNITS

(" Arg "= a or t.)

1															
Arg	н	М	s.	Arg	н	M	8	Arg	,	1	m s	Arg] 1	i	M S
1	0	\$	1511	30	2	7	8- 33	59		1 1	0 58 51	88		3 1	4 1270
2	0	8	30 29	31	2	11	49 47	60	4	1	5 87	89	1	3 1	8 27 84
3	0	12	45 43	32	2	16	4 62	61	4	19	23 80	90	6	2	2 42 99
4	0	17	0 58 -	33	2	20	19-76	62	4	23	38 95	91	6	20	5 58 18
5	0	21	15 72	34	2	24	34 91	63	4	27	54 09	92	6	31	13 27
6	0	25	JU 87	35	2	28	50 05	84	4	32	9 23	98	6	38	28 42
7	0	29	46 01	36	2	33	5 19	65	4	36	24 38	94	6	89	43 56
8	0	31	1 15	37	2	37	20 34	66	4	40	89 52	95	6	48	58-71
9	0	38	16 30	88	2	41	85 48	67	4	44	54 67	96	6	48	18 85
70	0	42	31 44	39	2	45	50 <i>6</i> 8	68	4	49	9 81	97	6	52	29 00
11	0	46	46 50	40	2	50	5 77	69	4	53	24 96	98	6	56	44 14
12	0	51	1 73	41	2	54	20 92	70	4	57	40 10	99	7	0	59 28
13	Ð	55	16 88	42	2	58	36 06	71	б	1	55 24	100	7	5	14 43
14	0	59	82 02	43	3	2	51 20	72	б	6	10 89	200	14	10	28 86
15	1	3	47 16	44	3	7	6 35	73	5	10	25 53	800	21	15	43 28
16	1	8	2 31	45	3	11	21 49	74	5	14	40 68	400	28	20	<i>57-7</i> 1
17	1	12	17 45	46	8	15	36 64	75	5	18	55 82	500	85	26	1214
18	1	16	32 60	47	8	19	51.78	76	5	23	10 97	600	42	81	26 57
19	1	20	47 74	48	3	24	6 93	77	5	27	26 11	700	49	36	41 00
20	ì	25	2 29	49	3	28	22 07	78	B	81	41 25	800	56	41	55 42
21	1	29	18 03	50	3	32	87 21	79	5	35	56 4 0	900	68	47	9 85
22	1	33	83 17	51	3	36	52 36	80	5	40	11 54	1000	70	52	24 28
23	1	87	48 32	52	3	41	7 50	81	5	44	26 69				
24	1	42	3 46	58	8	45	22 65	82	5	48	41 83				
25	1	48	18 61	54	8	49	87 79	88	5	52	56 98	1			
20	1	50	33-75	55	3	58	52 94	84	б	57	12 20		'		
27	1	54	48 90	56	8	58	8 08	85	6	1	27 26				
28	1	59	4 04	57	4	2	23 22	86	6	5	42 41	1			
29	2	8	19 18	58	4	6	88 37	87	6	9	57 55				~

TABLE XCIV-B

TIME-EQUIVALENTS

DECIMALS OF TITHI-INDEX UNITS

First 3 deciwals	m s	First 2 documals.	м s.	First 3 documals	м в
·ó1	Ó 255	34	1 26-75	67	2 50.95
02	0 510	35	1 29 30	-68	2 53 50
-03	0 765	36	1 31 85	89	2 56 05
-04	0 10 21	37	1 84 40	•70	2 58 60
05	0 12-76	38	1 36-95	71	3 1.15
-06	0 15 31	89	1 39 51	-72	3 3.70
-07	0 17.88	40	1 42.08	73	3 6 26
-03	0 2041	41	1 44 61	74	3 8 81
09	0 22-96	42	1 47 16	-75	3 11 36
10	0 25 51	43	1 49-71	76	8 13-91
11	0 28 07	44	1 52 28	77	3 16 46
12	0 30 82	45	1 54 81	-78	3 19 01
•18	0 33 17	46	1 57 37	79	8 21 56
14	0 35-72	47	1 59-92	80	3 2412
15	0 88 27	48	2 247	81	8 26 67
16	0 40 82	49	2 5.02	82	3 29 22
17	0 43 37	50	2 7 57	83	3 31-78
•18	0 45-98	ı	2 10-12	84	8 84 32
19		1	2 12-68	85	3 36 87
20			1	£ 88	3 39 42
•21	1			8 87	8 41-98
2: 2:	1 -	1	1	1	3 44 53
2	1	1 -	. 0		3 47 08
2	1	_			1
-2	1		8 2 27·9	1	
	1	1 -		1	1 02.0
	28 1 11	1	0 2 88 0 1 2 85 6		
•	29 1 18		32 2 38 3	. 1	
•	80 1 16	1	83 2 40	1 -	
•	81 1 19		84 2 43	1 -	
•	32 1 21	_ 1	65 2 45	1 -	1
	33 1 24	20	66 2 48	- I	
****			·		1

3rd and 4th decimals	s	3rd and 4th decimals	£	3rd and Ath decimals.	8
•0001	0-03	-0034	0 87	10067	171
∙0002	0 05	-0035	0 89	0068	1.73
0003	0-08	-0036	0 92	-0069	1.76
0001	0 10	0037	0.34	0070	1.79
0005	0-13	0038	0-97	10071	1.81
0006	0 15	0039	1.00	-0072	1.84
-0007	0 18	-0010	1.02	-0073	1 56
0003	0 20	1100	1 05	0074	1 89
-0009	0 23	0012	1 07	0075	1.91
0010	0 26	0013	1 10	-0076	1-94
0011	0 28	0014	1 12	0077	1-96
0012	0 31	0045	115	-0078	1-99
•0013	0 33	-0046	1 17	-0079	2 02
0014	0 36	0047	1 20	-0080	2.04
0015	0 38	-0018	1 22	-0091	2.07
·0016	0 41	0049	1.25	0082	2.09
0017	0 43	-0050	1 28	-0083	212
0018	0 46	-0051	1 30	-0034	214
0019	0 48	0052	1 33	•0035	2 17
-0020	0.51	-0053	1.35	-0096	2 19
0021	0 54	0054	1 38	-0087	2 22
-0022	0 56	0055	1 40	0058	2 25
0023	0 59	0056	1 43	0089	2 27
·0024	061	0057	1 45	0090	230
0025	0 64	0058	1 48	-0091	2 32
0026	0 8R	0059	1 51	0092	2 35
0027	0 69	-0060	1 53	0093	2 37
0028	071	0061	1 56	0094	2 40
0029	074	1	1 58	0095	242
0030	0 77	0063	161	0096	2 45
0031 0032	0.79	1	1 63	0097	2 47
0032	0 82		1 66	-0098	250
	0 04	0066	168	0099	2 52

TABLE XCIV-C.

TIMF-HQUIVALENTS

NARSHATRA-INDLX UNITS

		4			1		
Arg.	н м ѕ	Arg	н м ғ	Arg	нмѕ	Arg	нм я
1	0 3 56 06	31	2 1 57 84	61	3 59 59 61	91	5 58 139
2	0 7 52 12	82	2 5 53 90	62	4 3 55 67	92	6 1 5745
3	0 11 4818	83	2 9 49 95	63	4 7 51 78	98	6 5 53 51
4	0 15 44 24	84	2 13 46 01	64	4 11 47 79	94	6 9 49 57
6	0 19 40 30	35	2 17 42 07	65	4 15 43 85	95	6 13 45 63
6	0 23 36 36	36	2 21 38:13	66	4 19 8991	98	6 17 41 69
7	0 27 32 41	37	2 25 34 19	67	4 23 35 97	97	6 21 3775
8	0 31 28 47	38	2 29 30 25	68	4 27 32 03	98	6 25 33 80
9	0 35 2153	39	2 33 26 31	69	4 31 28 09	99	6 29 29 86
10	0 59 20 59	-40	2 37 22 37	70	4 35 2415	100	6 83 25 92
11	0 43 16 65	41	2 41 18 43	71	4 39 2021	200	13 6 51.85
12	0 47 1271	42	2 45 1449	72	4 43 16 26	300	19 40 1778
18	0 51 8-77	43	2 49 10 55	78	4 47 12 32		
14	0 55 483	44	2 53 661	74	4 51 838		
15	0 59 0 89	45	2 57 267	75	4 55 4 14		
16	1 2 56 75	46	3 0 5872	76	4 59 050		
17	1 6 53 01	47	8 4 5478	77	5 2 56 56		
18	1 10 49 07	48	8 8 50 84	78	5 6 52 62		
19	1 14 45 18	49	3 12 46 90	79	5 10 48 68		
20	1 18 41 18	Б0	3 16 42 96	80	5 14 4474		
21	1 22 87 24	51	3 20 89 02	81	5 18 40 80		
22	1 26 88 30	52	8 24 85 98	82	5 22 86 86		
23	1 80 29 36	58	3 28 81 14	88	5 26 82 92	- 1	
24	1 84 25 42	54	8 82 27 20	84	5 30 28 98		
25	1 38 21 48	55	3 36 23 26	85	5 34 25 08		
28	1 42 17 54	56	3 40 1932	86	5 38 21 09		
27	1 46 13-60	57	8 44 1538	87	5 42 17:15		
28	1 50 - 986	58	8 48 11 44	88	5 46 13 21		
29	1 54 572	59	8 52 749	89	5 50 927		
86	1 58 1.78	gn	8 56 8 55	90	5 54 6 08		
		<u>نى</u>				~	

TABLE XCIV-D.

Time-equivalents,

DECIMALS OF DAFSHATEA-INDEX UNITS.

							<u> </u>		,
in in it	A e	First 2		y .	ë	First 2 decimals	31	: £	
C1	0 200	24	, 1	2:)-2/i	-67	2	35 16	
472	0 473	: 2:	5 1	22	2-62	-68	2	40 52	
417	0 70-	3,1	; ;	1 2	~ 19	୧୨	2	42 88	
4 4	9 14	37	; 1	27	731	70	2	45 21	
4/3	0 11 6	1 4	5 1	1 2	770	71	2	17 60	
4	0 141	- 7	: ۱	1 3:	2-05	-72	2	49-26	
177	6 27 2	2 #	n (1 3	1 12	-73	2	52 32	
af an	is Ira	5 5	1 :	1 3	5 78	74	2	5168	
~ ×	0 212	-	2	1 4	115	75	2	57 01	
14	0 274	1 4	٦	1 4	1 51	76	2	59 19) }
11	0 200	7 1	\$	1 1	3 67	77	3	177	
12	14 25 7	3 4	5	1 4	6 23	78	3	4 13	
14	0 : H	5 4	S	1 5	5 50	79	1 3	6 19	
14	1 - 1	·5 4	17	1 5	905	80) :	8 8 8 5	1
**	10 27	11 4	54	1 5	::31	-51	1 :	3 11 21	
Is	1	77	6.	1 !	55 - 67	-6:	2 :	3 13 57	
17	0.4	1	۱،۰	1 :	26.53	-5:	3 :	3 15-93	
1.	1	1	1	2	しなり	1	\$	3 15 29	
:	ł	1	5 <u>5</u>	2	273	3.	5	3 29-65	
*	ŗ	3	. , ,	2	6 13	ł	- 1	3 23 01	
2	•	=	<i>(1</i>	=	5 6	1	7	3 25 37	
			:"	=	D 2.	ţ	.5	3 27-73	1
	2	**	"	2	1:1:	i		3 30-14	
	24 {		4.	1	14:		-7	3 .5 (5
	3	1.41	~~ •	**	ار مرو	•	61	3 315	1
	2	17.	6	1 2		ı		3 (7)	- 1
	* , *	,	- 1			•	eria.	3 27 2	1
	mc 1 4	* 4"	4 3	ž		I I	- 14 -65 *	2 44;	•
	3 12 3		,	3			,	3 4.	- 1
	\$, \$	** * *	, في		: 21.	. ,	جرد	2 6-	
		.4.2		Ĭ.	2 27	1	<i>*</i> "\$	3	١,,
	** 7	·]	*	• ;	:)	Γ,	2 (,	- 1
•	Sojac	mary mary server	oft. Worker		~ ~~	[_		1]

3rd and 4th lecimals	s	3rd and 4th decimals	æ	Srd and 4tn decimals	s.
-0001	0.02	0034	0 80	0067	1 58
0002	0 05	0035	0 83	8600	1 61
0003	0 07	-0036	0 85	0069	J 63
-0004	0 03	0037	0 87	0070	1 65
6005	012	-0038	0 90	0071	1 68
0006	014	-0039	0.62	0072	1 70
0007	0:17	0040	0 94	007ล	1 72
0008	0-19	-0041	0 97	0074	1 75
0009	0 21	-0012	0.99	0075	177
0010	0 24	0013	1 02	0076	1.79
0011	0 26	-0014	101	0077	1 82
0012	0 28	0045	1.06	0078	1.84
0013	0 31	0046	1 09	0079	186
001 \$	0 33	0017	111	0080	1 89
0015	0 35	-0018	1 13	-0081	191
0016	0 38	0019	1 16	0052	194
-0917	0.40	0050	1 18	0053	1 96
0018	0 42	0051	1 20	0084	1 98
9019	0.45	-0052	1 23	-0095	201
-0020	0-17	0028	1 25	3600	2 03
0021	0 50	0054	1.27	-0057	2 05
-0022	0 52	0055	1 30	0058	2 08
-0023	0.51	-0056	1 32	-6089	210
-0025	0-57	0057	1.35	-0090	212
-0025	0.59	-0055	1 37	-0071	2 15
-0025	O-G1	-0050	1 33	0072	217
10027	0-64	1	1 12	-00713	2 20
6023	O£6		1 45	10001	2 22
48/20		1	140	1	224
6/30		1	1 49	1	2 27
VICI	Į.	1	1.1	1	2 29
4 12	1	1	177	1	231
vai	07	446	150	s was	5.04

TABLE XCIV-E.

TIME-EQUIVALENTS.

YOGA-INDEX UNITS.

Arg	H,	M.	8	Arg	н	M	8	Arg	н	M.	. s	Arg	H.	М	S.
1	0	8	89.68	81	1	58	28 55	61	8	48	17 47	91	5	88	6.89
2	0	7	19:26	32	1	57	8 18	62	8	46	<i>5</i> 7 10	92	5	86	46 02
8	0	10	58·89	83	2	0	47 81	68	3	50	86 73	98	5	40	25 65
4	0	14	38.52	84	2	4	27:44	64	8	54	16 36	94	5	44	5 29
ь	0	18	18.15	85	2	8	7 07	65	8	57	56.00	95	5	47	44.92
6	0	21	57.78	86	2	11	46.71	66	4	1	85.68	96	5	51 .	24 55
7	0	25	37:41	87	2	15	26 34	67	4	5	15 28	97	5	55	4:18
В	0	29	17 05	88	2	19	5 97	68	4	8	54 89	98	5	58	43.81
9	0	82	56.68	89	2	22	45 60	69	4	12	R4 52	99	6	2	23-44
10	0	86	86.31	40	2	26	25 23	70	4	16	14 15	100	6	в	3 07
11	0	40	15:04	41	2	80	4 86	71	4	19	59.78	200	12	12	6.14
12	0	43	55.57	42	2	88	44 49	72	4	28	38 41	800	18	18	9 21
13	0	47	85 20	43	2	87	24 12	78	4	27	18 04				
14	0	51	14 83	44	2	41	3 75	74	4	80	52 87				
15	0	54	54 4 8	45	2	44	43 88	75	4	84	82 80				
16	0	58	84 09	46	2	48	23 01	76	4	88	11 98				
17	1	2	1872	47	2	52	2 64	77	4	41	51 58				
18	1	5	58 35	48	2	55	42 27	78	4	45	81 19				
19	1	9	32 98	49	2	59	21 90	79	4	49	10 83				
20	1	13	1261	50	8	8	1 53	80	4	52	50 46				
21	1	16	52 24	51	8	6	41 17	81	4	56	30 09				
22	1	20	81 88	52	3	10	20 80	82	5	0	9 72				
23	1	24	11 51	58	8	14	0 48	88	5	8	49 85				
24	1	27	51 14	54	8	17	40 06	84	5	7	28 98				
25	1	31	80 77	55	8	21	19 69	85	5	11	8 81				
26	1	85	10 40	56	8	24	59 32	86	5	14	48 24				
27	1	38	50 03	57	3	28	88 95	87	5	18	27 87		`		
28	1	42	29 66	58	8	82	18 58	88	5	22	7 50				
29	1	46	9 29	59	8	35	58 21	89	5	25	47 18	1			
80	1	49	4 & 92	60	3	89	87 84	90	5	29	28.78				

TABLE XCIV-F

TIME-FQUIVALINTS

DECIMALS OF YOGA-INDEX CNITS

First 2 decimals	M. S.	First 2 decimale	M. S	First 2 documils.	ме
01	0 220	34	1 1467	-67	2 27 15
02	0 439	•35	1 16 87	-68	2 29 35
-03	0 6 59	36	1 19 07	-69	2 31 55
-04	0 8.79	37	1 21 26	70	2 33-74
-05	0 10-98	38-	1 23 46	71	2 35 94
-06	0 1318	-89	1 2566	72	2 88 13
•07	0 15 37	40	1 27.85	73	2 40 33
-08	0 17 57	41	1 30-05	74	2 42 53
•09	0 19-77	42	1 32 24	75	2 4472
•10	0 21.98	43	1 84 44	76	2 46-92
11	0 2416	44	1 36-64	777	2 49 12
12	0 28 36	45	1 88 83	78	2 51 31
•13	0 28 55	46	1 41-03	79	2 53 51
14	0 80-75	47	1 43 23	80	2 55-70
•15	0 82-94	48	1 45 42	*81	2 57.90
16	0 35 14	49	1 47 62	-82	8 0-10
17	0 87 34	•50	1 49 82	-83	3 2 29
·18	0 89 58	•51	1 5201	-84	3 4.49
19	0 41.78	52	1 5421	*85	8 6-69
•20	1	53	1 58 40	86	3 888
21	\	2 54	1 -58 60	87	8 11-08
•22		2 •55	2 0-80	88	8 13 28
2			2 299	89	8 15 47
2	1	- 8	2 519	190	8 17-67
•2		1	2 789	91	3 19-86
2		- 1	1- 000	92	3 22-06
-2	1				3 24 28
•2				l l	8 26 45
	. 1	1 1		1	8 28 65
	30 1 5 6 31 1 8 6		1		8 80 85
	82 1 10		_	_	
	33 1 12	, ,		_	1 1
==		1	6 2 24 8	8 99	8 37 43

3rd and 1th decimals	g.	3-1 and 4-h decurals	۶	Ord and 40% decemble	
-0001	0-02	.003\$	075	0057	1 17
-0002	0.03	-0015	077	-0003	1,0
0003	0-07	-0030	0.70	-0000	1 72
1000	0.00	-0037	0.51	9)70	154
0005	011	0035	083	-0071	176
-0000	0 13	0039	080	-0072	1.79
-0007	0 15	-0010	0.88	-0073	100
-0003	0 18	0011	0.50	10071	113
-0000	0 20	0032	0.05	-0075	1.65
0010	0 22	•0013	0-21	0276	1 67
-0011	0 2 3	0014	0.97	-0077	1-69
-0012	0 26	0715	0-01	0078	1.71
-0013	0 29	-0016	1 01	0070	174
-0014	0 31	-0017	1-03	0080	176
0015	0.33	8100	1 05	-0051	1.78
0016	0 35	0049	1.03	-0092	1 80
-0017	0 37	• 0050	1 10	0093	1 52
-0018	0 40	0051	1 12	1800	181
0019	0 12	0032	114	-0085	1 57
-0020	0 44	0053	1 16	0056	1 39
0021	0 46	0051	1 19	-0057	191
0022	0 48	0055	1 21	0088	1.03
0023	0 51	0058	1 23	0099	1 95
10024	0.58	0057	1 25	0090	198
•0025	0 55	0058	1 27	0091	2 00
0026	0 57	0059	1 30	0092	2 02
*0027	0.59	0000	1 32	0093	201
0028	0 61	0061	1 34	-009 1	2 06
0029	0 64	0062	1 36	0095	2.00
•0080	0 66	0063	138	0096	2 11
0031	0.68	-0064	141	0097	2 13
0033	0.70	0065	143	0098	2 15
	0.72	0066	1 45	องอา	2 17

No 16.—VELVIKUDI GRANT OF NEDUNJADAIYAN. THE THIRD YEAR OF REIGN

BY H KRISHNA SASTRI, B.A. OOTACAMUND.

Sixteen years ago, when Mi Venkayya in his Epigraphical Report for 1908 (pp 50 ff) discussed with great ability the contents of the fourth of the early Pandya copper-plates discovered "The originals of these plates have not been traced The following till then, he remarked account of them is based on a preliminary study of two excellent impressions belonging probably to Sir Walter Elliot's collections kindly placed at my disposal by Dr Fleet in 1893" These duplicate impressions of the grant now in the editor's possession, are marked by Dr Fleet "I-n-11" and must have been originally intended for publication in the Indian Antiquary Mr Venkayya, however, could not at once prepare an article on them, as the early Pandya chronology was then About the end of 1915, Dr L D Barnett of the British Museum, London, sent me impressions of a copper-plate inscription preserved in that institution and wished to know if it had been published and what its contents were Curiously enough, it happened that these were the very same impressions of which Mr Venkayya was unable to trace the originals. I wrote back to Dr Barnett informing that the plates contained on them an important Pandya grant which had been already noticed in the Epigraphical Report for 1908 and asked for certain details about them He says briefly "There is no seal on the grant the plates are held by a thin copper-ring, which has been cut" The detailed measurement of the plates and their number, consequently. remain to be what has been described by Mr Venkayya, viz, these are ten copper-plates. of which the first seven are numbered on the left margin on their inner sides and the implessions measure $10\frac{7}{8}$ by $3\frac{1}{8}$, the first and the last plates being written only on their inner sides

The writing on the plates is both in the Grantha and Vatteluttu characters, the first being used in Sanskrit passages (Il 1 to 30 and Il 142 to 150) and in all Sanskrit words that occur in the Tamil portion of the inscription The Grantha characters and orthography do not call for any special remarks except that in almost all conjunct consonants, where they are written one below the other, the upper or the first member of the compound letter is marked by the virama, following evidently the Tamil method of writing The same influence is also observed in the pronunciation and spelling of Sanskrit words, eg, pārakan and purokan (l. 99) kritupatanan (l 100) and kandakanishturan (l 100 f) In one particular case, the purely Tamil word antanar (1 61) is written partly in Grantha and partly in Tamil The use of tsha for ksha (1 144), nma for tma, dma for lma and ri for ri or ru, in compound letters, also shows the same influence Consonants coming after r are always doubled except in one in line 14 and 'तिम्ं' in line 17 The upadhmānīya and jihvāmūlīya symbols are used throughout in their proper places The anusvāra used in -varggam=yudhi (1 14) and in samyati (1 28) is worth noticing. It denotes the anunāsika forms of yu and ya and is shaped in the form of a crescent with a dot in it placed over the heads of these letters. In his commentary on Pāninī VIII-4-59 Bhatton-Dikshita remarks that the anusvāra in such cases changes itself optionally into the nasal form of ya

The Vatteluttu character so called, is an oblique form of Tamii (excepting certain letters) with a few angularities which on careful scrutiny could be easily accounted for The only four letters in the alphabet whose form cannot be explained with reference to Tamil are the vowel letters: (a) (see irakkio in line 40), at (a) (see aimpadiquar in line 135) and the more frequently occurring na (3 and po) In the matter of the Valleluttu palmography of this inscription it might be noted (1) that the pulli is correctly inserted throughout the inscription except in a few cases, e g, voiti= (l 31), etterattum= (l 47 f), arram (ibid), =avarku (l. 46) and volti (l 37), (2) that it is unnecessarily inserted over the vocalic e and o and even

over the initial vowel letter o, as in mennum, chchor, (1 34), korkai, korran, konda (1 35), dēy (l. 38), goli (l 43), nennun (l 45), rrennan (l 46), kkolai, chcheligan (l 50), olgāda (l 108 f.), ododa (l. 109), polil (l. 65), pporu (l 63), poruttāga (l 71), and (3) that it is omitted in a few The shaping of the long w-sign in ru (1 119), nu (1 107) and lu (1 76) and the use of the Tamil alabedar (Skt. pluta) in kkoliya in line 97 for the purpose of completing the metrical quantity are worthy of notice This alabedar according to the Tamil grammarians is to be used in (1) selling articles, (11) calling people at a distance and (111) in filling up the metrical While in Eanskiit only vowels have pluta. quantity in a verse Pānini omits (1) and (111) in Tamil the consonants (nasals and sibilants) are also thus lengthened.

The orthographical peculiarities such as the insertion of y after consonants with the e-sign (11 94, 97f), the substitution of the vowel i for yi (11 66, 115, 118, 140), the non-observance of euphonic rules in adding the suffixes um (l. 93), ul (l 59), in (l. 93) and odu (l 46 f), the want of distinction between the long and the short : (except in the single instance nirod-att: in line 117) and between the long and the short o, are noteworthy Puli-ūr (1.58), omasy-iruppas (1 121 f), chey-idai (1 122), mani-imai (1 81), kkali-araisan (1. 90), kurai-uzu and nirai-uzu (1 102) are also cases of the omission of sandhi Paramesiaranar-Velviludi (1 110) for onal Vēlvikudi and ielippatiu for ielippatiu (ll 41, 49, 52, 88) are evidently wrong forms, śeklun (1 120) for seykkun and aimpadinvar (1 135) for aimpadinmar may be regarded as colloquial usages similar also may be the use of kudu (1 125) for kodu The form 1ydu (1. 152) for 1du through the intermediate form thdu probably gives us the clue for the correct pronunciation of the Tamil aydam-sign which is now pronounced as the jihiamuliya and the upadhmaniya forms of the usarga The metre used in the Tamil portion of the inscription is the Agaial while in the Sanskrit portion the metres employed are Vamiastha (vv 1, 12), Anushiubh (vv 2, 17, 20 and 23), Vasantatilakā (vv. 3, 9 and 19), Sārdūlavikrīdita (vv. 4, 5, 6 and 10), Mālabhārını (vv. 7, 8, 15 and 16), Upendralayra (vv 11, 14), Drutavılambita (v 13) and Arya (v 18)

Palæographically, the Grantha characters of the Velvikudi grant differ from those of the Madras Museum plates of Jatilavarman,2 although for reasons stated in the sequel, both of these have to be attributed to the period of the same king Nedunjadaiyan The difference is distinctly observed in the formation of the serif which in the first case is a plain horizontal line, whereas in the second, it makes a loop with the letter The bottoms of letters like ma and ba and the top of the vowel i are bent at the base line in the Velvikudi grant, whereas in the Madras Museum plates they either form one uniform curve, or are straight, the upadhmānīya and the jihtāmūliya signs are not used at all in the Madras Museum plates The punctuation marks at the end of verses in the Velvikudi grant are the pillaiyār sult (2_) whereas in the Madras Museum plates they are denoted by the so-called om symbol (9)3, anuscaras are more frequent in the Madras Museum plates than nasal conjuncts The Velvikudi grant, in numbering the plates, uses the Grantha letter-symbols, whereas the Madras Museum plates use the usual Tamil numerals In the Vatteluttu alphabet employed, however, the two grants do not seem to differ much, except in the case of the letter ya which in the Velvikudi grant as in the Apaimalai inscription,4 is uniseptate, while in the Madras Museum plates it is bipartite. This single difference in the characters of the Tamil portion which is the earlier, and perhaps constitutes the grant proper in both, need not show that the two grants must belong to different periods

¹ The scheme of this verse as given in the Chhandomanjari is -विषमे ससना यदा गुड चित् समरा यन तु मालभारियीयम् ॥

² Ind Ant, Vol. XXII, with Plate, pp. 57 ff.

The latest interpretation of this symbol is siddhih, success."

⁴ Above, Vol. VIII, p. 317 ff.

insertion of the Grautha portion in the Velvikudi grant might have been somewhat earlier than that in the Madras Museum plates.

The Sanskrit portion of the second commences with an invocation to Siva (verse 1) and goes on to refer in general terms to the Pāṇḍya kings and their race, of which the family priest was the sage Agastya¹ (vv. 2 and 3). At the end of the previous Kalpa, it is stated, there was a powerful king named Pāṇḍya who was ruling at the entrance into the sea (ie, on the coast of a gulf) and that the very sa ne king at the beginning of the current Kalpa was born as Budha, the son of the Moon (v. 4). His son was Purūravas, and in his family, whose crest was a pair of fish, which shared with Indra, the lord of gods, half of his throne and his necklace and was a party in the purāṇic churning of the milk ocean, was born king Māṇavarman, a patron of the learned (vv b and 8). His son was Baṇadhīra (v. 9) and his son Māṇavarman II Rāṇasimha (vv 10 and 11) at whose presence the king P llavamilla ran away from the battle-field (v. 12). This king Rāṇasimha married a Malava princess and by her begot king Jatila (v. 14), who was also called Parāntaka (v. 17). Thus ends the short Sanskrit eulogy (praśusti) which was composed by the Sanakratuyājin Varōdaya-Bhatca (l. 30).

We may now pass on to what the bigger and the more important part of the record, the Tamil praineti, has to say, with the remark that the Sanskrit portion, by its brief notice and the very meagre historical material which it supplies in the form of a general introduction, could not have been contemporaneous with the Tamil portion It was evidently added only later to give a dignified appearance to the grant proper which is in Tamil This Tamil portion begins with the mention of a past event, namely, that the kelm-Brahmans" of Paganur-Kurram seeing that one of their own community, named Narkorran, the headman of Korkan, who had contemplated the performance of a Vedic sacrifice, with the help of the ruling Pandya king (adhirata) Palyagamudukudumi Peruvaludi, placed his petition before the king and themselves standing in front of the sacrificial hall, blessed that spot to be thenceforth (?) called Vēļvikudi 8 The king granted the village to Narkorran and it was thus that the village came to be enjoyed by the latter for a long time After this, a powerful Kali king, named Kalabhran, conquering many adhirajas, brought under subjection the whole Pandya country including, of course the village Velvikudi which was then resumed. Some time clapsed and after this sprang forth a powerful Pandya, named Kadungon, who reconquered the whole land from his enemies. His son was Avanichülsmani Māravarmap. His son was Šeliyap Vāpavap Šēndan and his son, Arikësari Asamasaman Maravarman, who won a battle at Pali against his enemies. defeated a certain Vilvēli at Nelvēli; destroyed the Paravas and the people of Kuru-nādu; won a victory at Sennilam, conquered the Kerala several times at the strongly fortified town of Puliyur; made many gifts and protected the Brahmanas and the invalids His son was Sadaiyan, the lord of the Konga country (Kongarkoman), who was possessed of the titles Tenna-Vanayan, Sembiyan, Solan and Madura-Karunatakan, won a battle at Marudur,

Agastya is also supposed to have been the founder of the Tamil language and the author of the Tamil grammar Agattayam mentioned in Tamil literature He is referred to as the family priest of the Pāṇdyas also in Kālīdāsa's Raghutamia, VI. 61, and in the commentary on Igasganār Agapporuļ.

² Kēļvi-andaņāļar may also mean 'learned Brāhmaņas'. But kēļvi seems to be used here in a technical sense. In inscriptions we find the word applied to a class of administrative officers whose business was to carry the applications of petitioners to the 'hearing' of the king See also Ep. Ind. Vol. III, p. 69, foot-note 7.

I.s., the village of the sacrifice In the Tamil portion in 1 108 f. it is stated that the village had the name Vilvikudi given to it by king Mudukudumi

^{&#}x27;The significance of this title is not apparent. Could it be that like Sembiyan and Solan he could have acquired it by conquering the Western Châlukyas who were known as Karnätakas? But we know that these were too far away from the reach of the Pāndyas. Another possible explanation is that the Pāndyas might have intermarried with the Châlukyas and the issue of such an intermarriage might well be called the Sweet Karnātaka'! Aga'n, the identification of the Kalabhra with Karnāta by. Mr. Venkayya (see below p. 295) seems to gain in significance in considering the propriety of the title Madura-Harnaātakan held-by hing Sadaiyan.

2 8 2

defeated Ayavel in battles at Sengodi and Pudankodu, destroyed the Maharithas at the big town (Mahanagara) of Mingalapuram and stamped the symbols of the bow, the tiger and ile fish on the big mountain, viz, the Himalayas This shows his supreme authority over the Chera, Chola and Pandya countries, whose symbols were the bow, the tiger and the fish, respectively His son was Ter-Maran who routed his enemies at Neduvayal, Kurumadai, Mann-Kurichchi, Tirumangai, Pūvalūr and Kodumbālūr, defeated the Pallaval king and captured his elephants and horses in the battle of Kulumbür, crushed his enemies at Periyalür crossed the Kaviri (1 e, the river Kaveri), subdued (the country of) Mala-Kongam, reached Pāndı-kKodumidi, worshipped Pasupati (1e, Šiva), contracted marriage relations with Gangaraja and renewed the fortifications of Kūdal, Vañji and Köli His son was Perantaka Nedunjadaiyan, who drove the Kadava (1 e. the Pallava) into the forest, after defeating him in the battle of Pennagadam on the southern bank of the river Kaviri and won a battle at Nattukkurumbu driving away the Ayavel and the Kurumbas to the forest possessed a long list of birudas such as Śrīvaran, Śina-chChōlan, Puna-pPūliyan, etc. enumerated in 11 98 ff

In the third year of the reign of this last mentioned king, a man having arrived at Kudal with a loud complaint, the king himself enquired into the matter with kind words and hearing from him how his village Velvikudi in Paganur-kurram, originally granted under that name by his ancestor, the great king (Parameśvaran) Palyagamudukudumi Peruvaludi, was resumed by the Kalabhra and had since then remained so even after the resumption of Government by the Pandyas, he ordered the applicant to produce the necessary evidence before the nadu to prove that the village was his from early times and thus to get it back. The complainant proved his claim accordingly and the king renewed the grant to the applicant Kāmakkāni Narchingan, the headman of Korkai The anath of the grant was Madavikalan Marangari alias Müvendamangala-Pperaraiyan, the crest-jewel of the Vaidyakas and a native of Karavandcpura, and a favourite of the king of kings (1 e, the Pandya king Nedunjadaiyan). It is stated of this Marangari that he fought bravely in the fight that ensued between the kings of the Eastern country (Pūrva-rājar) and Vallabha on the occasion when the daughter of Gangarāja (the Ganga king) was procured for Kongar-kon

Li 134 to 141 repeat that the owner of this brahmadēya (112, Vēlvikudi) was Kāmakkāni Suvaran-Singan, the headman of Korkai, by which perhaps the Narchingan, just mentioned, must be referred to The composer of the Tamil prasasti was the Senapati Enadi alias Sattan SEttan. This brings us to the end of the Tamil portion. The next Sanskrit verse speaking of the ajaapte of the grant says that he was Mangalaraja Madhuratara, a Vaidyaka and a master of the Sastras, a poet and an orator Then follow four imprecatory verses which are expressly stated to be quoted from the Vaishnava-Dharma. A Tamil prose passage coming after this says that the king himself ordered the engraving of this copper-plate grant and that the engraver was a certain Yuddhakēsari Perumbanaikkāran.

In noticing these plates in his Annual Report on Epigraphy for 1908, pp 50 ff, Mr Venkayya has already made it clear how Kalpa-kshayāt in v 4 has to be understood with reference to the traditional account of the deluge3 or tidal wave in the Pandya country and to the survival of a king of the old Pandya line "of the race of the Moon and in all respects corresponding," under the name Budha Similarly also, the mythical boast of the Pandya kings to have engraved their crest on the top of the Himalayas and to have shared one-half of Indra's throne and worn the garland of the king of the gods, has been shown to occur frequently in the later Pandya inscriptions Palyagamudukudumi-Peruvaludi is a historically famous Pandya king in whose honour

¹ The name of this Pallava king, which begins with Se, is hopelessly damaged on the impression

² Evidently the same mentioned in connection with the next king, his son Nedmijadanyan. Old Meduta is supposed to have been washed away by the sea see commentary on Agapporul, p 4.

five poems are known to have been sung by three famous Sangaml poets and included in the Tamil anthology called Purananuru. In one of these he is stated to have captured the extensive forts of his enemies and to have destroyed and ploughed their streets with a team of white-mouthed This way of dealing with the conquered countries seems to be a very old one. Dr. S. Konow posats out that there is a reference to it in the Hathigumpha inscription of Khāravēla? It is mentioned also in some inscriptions of the later Pandya king Maravarman Sundara-Pandya I The Kalabhia occupation of the Madura country and the consequent interregnum are also noted by Mr Venkayya with the remark that the Kalabhra may be the Karnata. After the interregnum came Kadangon with whom the first academy (Sangam) of Tamil poets is supposed to have come to an end The list of the kings that followed Kadungon to the donor Nedunjadayan is given in a genealogical table on p 54 of the Annual Report on Epigraphy for 1908, together with further information supplied about them by two other sets of Pandya copper-plates secured from Signamanur Mr. Venkayya thinks that Nedunjadaiyan of the Velvikudi grant must be different from Nedunjadaiyan of the Madras Museum plates published by him in the Indian Antiquary, not only on the strength of certain paleographical differences already noted above but also on account of the different engravers who in the one case was Yuddhakcsari Pandıya-Pperumbanaıklaran and in the other, Pandı-Pperumbanaıkkaran He further identifies Nedunjadaryan of the Volvikudi plates with Maranjadaialias Arikčsari yan of the Anaimalai cave inscription, for, between these two there is not only paleographical similarity, but also it happens that the agaapte of the former is the prime minister mentioned in the latter, both being called Marangaii Müvendamangalapperaraiyan, members of the Vaidya (or Vaidyaka) family and natives of Karavandapura with the attributes Moduratara and Kava Consequently, the two kings Nedunjadaiyan and Maranjadaiyan, who both bore the same surname Parantaka, must be identical and the date of the Velvikudi grant must be about A D. 769-70 which is the date of the Apaimalai inscription.

About the military achievements of Neduñjadaiyan we learn from this inscription that he defeated the Kādava king at Pennāgadam on the southern bank of the Kāvēri river and grove the Āyavēl and the Kurumbas in a battle fought at Nāṭṭukkurumbu Again, a statement made about the ājñapti of the giant in lines 126-129, adds that Mārangān rendered valuable service to his master Neduñjadaiyan by defeating a certain Vallabha at Venbar, on the occasion when the eastern kings secured the hand of the Ganga princess in marriage for Kongarkön. Here Kongarkön in order to suit the context, must be taken to be a surname of the Pāṇdya king Neduñjadaiyan himself. This is not improbable, masmuch as his grandfather Śadaiyan is also called in the inscription (Text, l. 70), Kongarkömān, and his father Tēr-māṇan is stated to have contracted relationship with the Ganga king (Text, l. 84) This latter event perhaps refers to the occasion when Māṇangān achieved the success mentioned above.

In spite of what Mr. Venkayya thinks about the identity of the kings mentioned in the Vēlvikudi plates and the Madras Museum plates there are strong reasons to believe that both refer to the same king. For, the ruling king Parantaka. Nedunjadaiyan and his birudas Panditavatsala, Virapuroga and Vikramaparaga occur in both Further, the surname Śrivaramangala given to the granted village Vēlangudi in the Madras Museum plates makes it clear that the king must have also had the biruda 'Śrivara' which we find actually given to him in the Vēlvikudi plates. The special mention of Mūrti Eyinan in 1 136 of the Vēlvikudi plates as

According to tradition there were three Sangams or old scademi s of Thmil Poets. The date of the last of these has been widely discussed. The latest pronouncement on the subject is that it must have come into existence some time after the 5th Century A. D

² Acta Orientalia, Vol I, Part I, p. 23f.

F These plates are under publication by me in the Epigraphia Indica.

[&]amp; Mr K V Subrahmanya Ayyar also supposes it to be so, vide his Sketches of Ancient Dekkan, pp 103 ff.

one of the fifty Brahmana sub-donces marks him out as an important personage. From the Anaimalai inscriptions, we know that Eyman was an epithet or surname held by Maran Eyman, the younger brother of Marangari himself. Pethaps Maran Eyman and Murti Lyman were both younger brothers of Marangari The ajnapti of the Madras Museum plates was Dhīrataran Mūrti Eyman, who was one of the mahī sūmantas of the king. There is little doubt that Mūrti Eyman of our plates and Dhīrataran Mūrti Eyman of the Madras Museum plates are identical and that thus also the king Nedunjadayan mentioned in both these sets of plates is one and the same If this identification is accepted the two allied plates together supply the full list of the military exploits of Nedunjadaiyan By the third year of his reign (the date of the present grant) Nedunjadayan must have subdued the Ayavel and the Kurumbar and defeated the Pallavas south of the Kaviri; but before his 17th year (the date of the Madras Museum plates) he had carried his conquests right into the heart of the Kongu country and taken possession of it by defeating its king Adiyan and his allies the Pallavas and the Keralas The conquest of the Kongu country and the desire to possess it seem to have been very strong with the Pandya kings For, Sadaiyan, the grandfather of Nedunjadaiyan, held the title 'Lord of the Kongas' and his father Ter-Maran actually crossed the Kaviri, subjugated Mala-Kongam and had invaded that country even as far as Pandi-kKodumudi. Neduñjadaryan seems only to have followed in the footsteps of his ancestors in subduring the Kongabhumi, as far as the land of the Gangas The information that a Ganga princess was married into the Pandya family is not mentioned in any of the Ganga records of this period which fells into the reign of Sivamara I (755 to 765 AD). The Vallahha or the Western Chalukya king who was defeated on this marriage occasion was probably Kirtivarman II who succeeded to the Chalukya throne in AD 746 or 747 and whose army is stated in his records to have defeated the army of the Keralas, the Cholas and the Pandyas

From what is stated of the countries of Kongu and Kērala in these inscriptions of Neduñjadanyan, it is not difficult to see that the former was bounded on the east and perhaps also on the north by the land of the Gangas-the Gangavad: 26,000 of the Western Gangas of Talakad and that on the south it extended far beyond Kodumudi, as even to cover the northern portion of the later Rajasarya-Valanadu of the Cholas which included in it the present Musiri and the Trichinopoly talukas Coimbatore was in the western division of the Kongu-mandalam The king of the Northern (vada) Kongu was Adiyan1—the Adigaiman or Adiyaman of later inscriptions whose capital was at Dharmapuri, the ancient Tagadur, in the Salem district The Kerala country was situated on the west coast beyond the Sahyadri mountains and may have included also the southernmost portions of the present Coimbatore district. In the 8th century, therefore, it looks as if the Kongu king allied himself with the Pallavas in the north and the Kerrlas in the south and tried to oppose the invasion of the Pandya Nedunjadaiyan Vallabha was defeated by the Pandya general and a Ganga princess was married into the Pandya family perhaps as a political measure. It is stated that Pürvarajar put to flight Vallabha. Māratgāri also fought on the same occasion Perhaps the Pūrvarājar were the chiefs of Gangavadı subordinate to the Western Ganga king who contracted marriage relations with the Pändvas

Mr. Venkayya observes again in his Epigraphical Report that the title Arikësari occurring in text-line 62, was borne by a certain Nedu-Māran who is mentioned in the commentary of Nakkirar on Iraiyanār-Agapporul This latter work, as tradition says, was made available for the public by Milakandanār of Mušini eight generations, i.e., about two hundred years, after the actual date of Nakkirar Mr Venkayya seems to have gone wiong in identifying Nedu-Māran of literature with Tēr-Māran of the Vēlvikudi plates where, however, the characteristic title Arikēsari is not given to him The other titles, too, are not applied to him and the

Bee remarks on his hamakkal inscription in the Madras Epigraphical Report for 1905, p. 75 f

bettles fought by him as described in the commentary under reference, are not found in the eulogy of fir-Major given in the Vilvikudi plates. On the other hand, Majorarman, the great grandfaths, of the donor Neducy ideavan is not only called Arikesari but is also stated to have fought victorious battle at Pah, Samilam and Nelvili which same are mentioned of him in the commentary on the tagging of This mention, therefore, of the very same battles both in the plates and in the commentary, sufficiently warrants our identifying Nedumäjan of the commentary with Majorarman, the great grandfather of Neducyadanyan and not with Ter-Majora Nal kirar has sung also of Neducyahyan in Pajoratjuga, and it is not impossible that this Neducyahyan is identical with Schwap, the father of Arikesari Majorarman

Of the in an exters of Nedungidaman mentioned in the Tamil portion of the inscription and the three mand do and to meeter mentioned in the Sanskiit portion, we learn nothing more than that the first king Kaani of a also came to rule after the Kalabhia interregnum was a Pandy-adhirija,* that the next Marazarman bore the fitle Aranichülämani and that the third Erndan, also called Selven and Vanaran, was probably identical, as stated above, with Nedunglisch of the Paga Judich fame. The fourth king, whose military achievements are given in detail, was SiI-Mirmannan Ankisan Asamasaman, who in addition to the victorous battles mentioned the de destroyed the Paravas and the people of Kugu-nadu fifth Sadaryan also called Russellmer, was the lord of the Kongas, fought battles against the Ayavil at Marudar and with the Maharuthas at Mangalapura; and the sixth, Tor-Magan or Rajasimhu, defeated Pallasamalla, perhaps at Kulumbur, and fought battles at Neduvayal, Kurumada, Marmi umheh. Tuumangai, Puvalii, Kodumbilii and Penyaliir and subjugated the country of Mala-Kougam as far as Pandi-kKodumidi. He contracted relationship with Gangaraja, marrying the daughter of the Ganga prince to his son Nedunjadaryan, himself haring married the daughter of the king of the Malavas 5 The fact that he defeated Pallavamalla shows that Ti-Maran must have been a contemporary of that king and lived about A D 710-760 +

As regards the territorial terms and village names that occur in the inscription, Pāganūr-kūram is identical with the division of that name in which the village Šōlavandān near Madura was included ⁶ Maļava is identical with Maļa-nādu ⁶ Kuru-nādu, and the granted village Vēlvikudi, and the villages Nagarūr, Korranputtūr and Pāyal mentioned in the description of the boundaries of the latter cannot be identified. Korkai is the well-known seaport of that name in the Tinnevelly District. Of the villages Nelvēli, Šenņilam, Puliyūr (in Kērala), Marudūr, Mangalapura, Neduvayal, Kurumadai, Manpikurichehi, Tirumangai, Pāvalūr, Šengudi, Pudāngōdu, Kodumbīlūr, Kuļumbūr, Periyalūr, Pāndikkodumidi, Kūdal Vañji, Kōļi, Pennāgadam, Nāttukkurumbu, Karavandapuram and Venbai,—Nelvēli is Tinnevelly;

चतुकासुद्रपर्यंग्तं पृथिवीं य. प्रपालधित्।

चक्रवर्धी छसाच्यातः छप्तराध्य प्रपालयेत ॥

श्रधिराजसामाच्यात.

(Hindu Iconogiaphy, Vol I, Part I, p 29 n)

* Malara is identical with the old Mala nada or Rajasraya Valanadu (see S. I I, Vol II, Introduction, p. 24, and Historical Sketches of Ancient Dekhan, p. 129)

¹ Ibid , pp 129 ff

² Describing the several grades of rulers, the Kāmikāgama states that an adhirāja—ādhirāja is the form which the inscription uses throughout the Tamil portion—holds the second rank among kings—

⁴ Udayachandra, the general of Nandivarman Pallavamaila, also claims in the Udayandram grant to have defeated the Pandya at Mannaikkudi (S. I. I., Vol. II., p. 368, Text, l. 60 f.) Perhaps we may have to identify Mannaikkudi with Mappikurichchi which is montioned in the Tamil portion (Text, l. 78 f.) as one of the places where Tar-Marap was victorious

No 127 of the Madras Epigraphical Collection for 1910.

⁶ See above note 8,

Maradūi is p rhaps Tiruppudaimarudūr near Ambāsamudram, Mangalapuram of the Mahārathas might be Mangalore; Kodumbālūi is in the Pudukköttai State, Pāndikkodumidi is the village Kodumudi neai Kaiūi a station on the South-Indiin Railwiy, Kūdal is is the village Kodumudi neai Kaiūi a station on the South-Indiin Railwiy, Kūdal is Madura; Vañji is Karūr¹, Kūļi is Woraiyūr neai Tiichinopoly, Ponnāgadam is in the Tanjore District, and Karavandapuram is the modein Kalakkād in the Tinnevelly District.

TEXT.2

First Plate.

Stasti³ [[*]

- 1 Śriyañ=chiram vaś=śisu-āmśu-śēkhaiaś=Śiva[h*] śrit-ārtii-pratikandha-kāranam [[*] tanōtu sauvarnna-kapa-
- 2 rdda-sundarah-kudarppa-Kandarppa-mada-pramarddanah [1*] Visvambhatā-bhara-srānta-sēsha-visrama-kāranam [1*] ā-
- 3 kalp-antam=bhuvi stheyad=anvayah=Pandya-bhabhritam 2 [2*] Astambhayat=kshiti-dharam=pravijrimbhamanam=ambha-
- & s=samastam=apıhaj=jaladh€ś=cha yas≈sah [[*] Kumbh-ödbhavö bhavetı yasya munih=purödhās=sa śrī-nidhi-
- 5 r=jjayati Pāndya-narcndra-vamšah <u>9</u> [3*] Aschād=apratima-prabliāva-malitāh= Pāndy=āblidhānō nidhē-
- 6 r=vvārādhvān⁴ mabīpatis=tribhuvanē līnč=pi kalpa-kshayāt [[*] Dhātrā sņishtavatā punas=sa
- 7 jagatām rakshārttham=abhyarthitas=tējasvī tanayatvam=ītya śaśinō nāmnā Budh= ākhyō=bhavat <u>o</u> [4*]

Second Plate , first side

- 8 Putras=tasya Purūravā bhuja-bala-pradhvasta-daityah=prabhus=tad-vamśē Sikharindra-mastaka-śi-
- 9 lā-vīnyasta-matsya-dvayē [[*] Šakr-āiddh-āsana-hāra-bhāji śaranē viśvasya
- 10 svāmm šāšvatē yudhi nt-āšēsh-āmar-āri-prabhau 2 [5*] Dūtībhūta-divokasis
- 11 bdh-ābhīsaml-shōbhīta-kshīr-ōdanvetī Kumbha-sambhava-kara-prāpt-ābhīshēka-krīyē [[*] ishṭ-ārtth-ārppana-
- 12 tarppit-ārttbi-janat-āptīrnņa-kshamā-mandalē janm=āvāpa jaga⁶-tray-ārchchita-guna[h*] frī-līāravarmmā nrī-

From two ex-ellent impressions supplied by Dr Flest to Mr. Vonkayia in 1893 and another supplied by Dr L D Barnettio me in 1915

¹ Pandit Baghara Aiyanga- of Ramnad has proved from copious references to literature that the earliest Vanji is Karur But an inscription at Dharapuram mentions the town Kongu-Vanji, suggesting thus, another Vanji which was perhaps the carlier and the capital of Cha-a.

^{*} These two syllables are written on the left margin of the plate

4 Rend *roisīrān-arāri, \$ Rend -diraukas;

^{*} Read 100ato-.

Velvikudi Grant of Nedunjadanyan the 3rd year

માં માર્કા ક્રિક્ષ ક્રેક્સ ક્રિલ્ટ ત્યેર દ્વું મળ તારુ કરે તે તે તે પ્રોમેરિંગ ક્રે મેટ્ટ ક્રેક્સ ક્રિક્સ ક્રેસ ક્રેસ ક્રેસ ક્રેક્સ ક્રેસ ક

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- 13 Pan <u>g</u> [6*] Dharant-valayam samastam=ētan=nija-dörddanḍa-mah-ōrag^zņa bibhrit¹ [1*] aharat-sa bhu-
- 14 jringam-ādhibhartuš=chira-kāl-ödvahana-klaman=dhatāyāh 🙇 [76] Adhiruhya tulām=a-mitra-varggam-hudhi ji-

Second Plate , second side

- 15 tr-Āmrita-garbbhato janītvā [1*] sudhīyām=adhīpas=suvarnna-rāšīm vidhīvat=sa prat·pādayām-babhūva [60 [8*] Tasy=ā-
- 16 ²nmajas=taruna-bhāskara-tulya-tējā rājā babhūva Ranadhīra iti pratītah [[*] 30 lilay=aiva bhuxana-

- 19 rākrama-dhanaḥ=°patmāsanāyāḥ=patir=vvidy-āchāra-vibhāshana[h*] śruta-[dha]ra[h*] śru-Māravarmm=ābhidhah ø [10*] Sa Rāja-
- 20 simhas=sarasiruh-ākshō bhayam bhuvi prāna-bhintām=apāsya [[*] raraksha dakshah kahapit-āri-paksha-
- 21 h-kshamātalam kshmā-patīr-akshat-ājñah 2. [11*] Naro nu Raksho nu Harōnu Pārushah-patō nu Sakrō nu

Third Plate, first side

- 22 sarösham-agatah [i*] 1ti [sma] matva yudhı yam=bhay-a[rddı]tah=[pa]layatö [Pallava]malla-bhapa-
- 23 tıh 9 [12*] Kanaka-garbbha-krita-prasavah=punas=samadhıruhya tulām=atulām= apı [[*] akıra[t=ā]-
- 24 rttham=npākṛita-kalmashō dvija-daridra-sur-āyatanē=shu yah 2 [13*] Māhā⁵-kulinām=Maļav-ēndra-[ka]-
- 25 nyam sa Marai ai mma sadrasim⁶=uvāha [i*] ajāyat=āsyām Hara-sūnu-kalpē lagad-dhitārtthañ=Jati-
- 26 1-ābhidhāuah 9 [14*] Asishat-sa dharām-ahīna-sārah-kshitipali-kshālita-7 kalmash-ānushamgam [|*] nata-rā-
- 27 jaka-mauli-ranna⁸-raśmi-prakar-ābhyarchchita-pāda-patma⁹ pīṭhah <u>9</u> [15*] Khalayē sa gunān=adāt=Kritasya
- 28 sva-bhujābhyām sura-pādapa-svabhūvam [¡*] abhayam saranāgata-prajābhyas=sa dīvam samyātī sa-

¹ Read bibhrat

² Road °tmaja°
⁵ Road Mahā.

⁸ Read Padmão
8 Read sadrisim=

Read pakshah kshamā°
 Road kshstipah kshā°

⁸ Roud raina.

[·] Read padma.

Third Plate, eccond side.

- 29 tru-pārtthivēbhyah 💇 [16*] Rājatām sa mahīpāla-kirīt-ārppita-sāsanah [[*] Rājasimha-sutō rā-
- 31 yyappattadu | ||||- Kol-yānai-palav=ōţţi=kkūdā-mannar-kulān=tavı-
- 32 rtta Palyaga-Mudukudumi-pPeruvaludi ennum Pandyadhirajana-
- 33 nāga-mā-malar-chcholai-nalır-sinaimisai-vaņd-alambum Paganūr-
- 34 kkūram1=ennum palana-kkidakkai-nīr-nāţiu=chchorkannūlar-fo-
- 35 lappatta érutimárggam-pilaiyáda Korkai-kilá=Narkorran kon-
- 36 da vēlvi mujjuvikka kēļvi-andaņālar munbu kēţka epj=edut-

Fourth Plate, first side

- 37 t-uraittu vēlvišālai-muņbu niņru Vēlvikudi en r-a-ppadīyai-chchī-
- 38 rodu tıru-valara=chcheydār [||*] Vēndap=appoludēy nīrod=atti=kkoduttamai-
- 39 yā-midu-bhukti *tuttapının[] = Alav-ariya adhirajaraı agala nikki agal-idattaı=
- 40 kKalabhran-ennun-Kala-araisan kaikkond-adanai iyakkiyapin[||*] Padu-kadan-mulai
- 41 tta paradı-pöla Pandyadhıralan velirpatin vidu-kadir-avir-oli vilaga virri-
- 42 rundu vēlai-sūļuda-viyal-idattu=kkovun=kurumbum pāvudan murukki=chche-
- 43 nkol-ochchi ven-kudai-mlar-rang-oli-nirainda Tarani-mangaiyai-ppirar-
- 44 pāl-urimai tiravidi-nikki-ttanpāl-urimai nangaņam-amaitta māņam-pē-
- 45 rtta-tänar-vēndann-odungā-mannar-oli-nagar-alitta Kadungōn-ennun-kadi-
- 46 r-vēr-Bennsn [||*] Marr-avarku magan-āgi mahitalam podu-nikki Malar-mangai[y*]-o-,

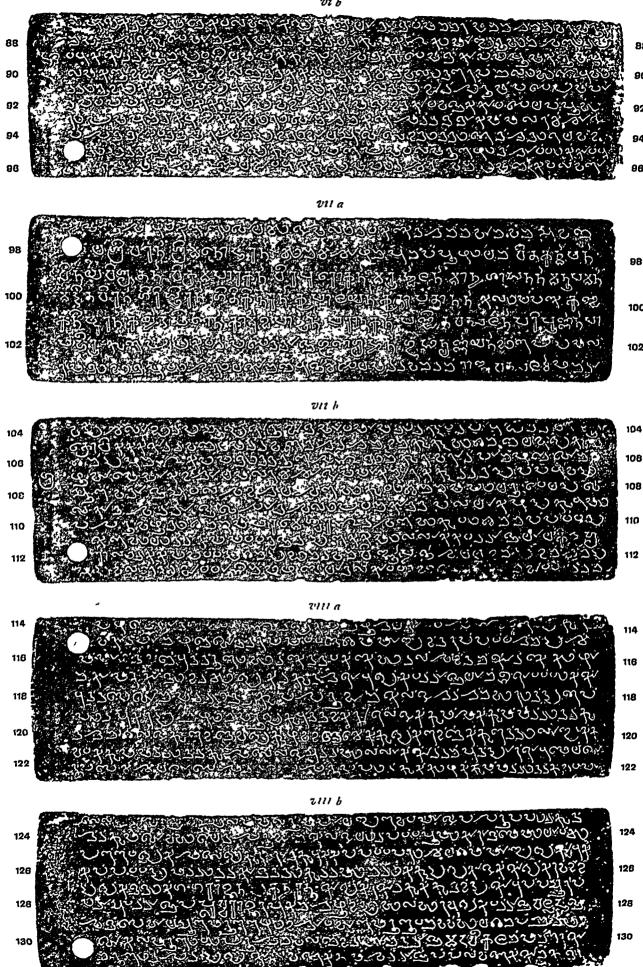
Fourth Plate; second side

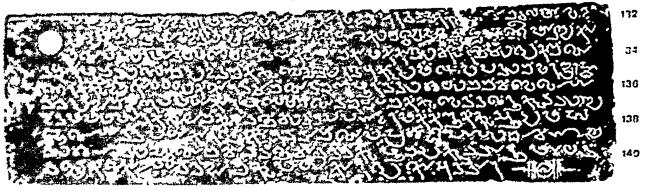
- 47 du maņan-ayarnda arram-il-adar-vēr-rāņan-Ādhirājan Avanuchülāmaņi etti-
- 48 rattum=igal-alıkku=matta-yāṇai Māravarmman [||*] Marr=avarku maruv=ıṇıya oru-magaṇ-ā-
- 49 gi Maņ-magalai maru=kkadındu vikramattın velırpattu vılangal-völ-po-
- 50 ri-vēndar-vēndaņ šilai-ttada-kkai=kkolai-kkalırru=chCheliyan Vānavaņ
- 51 śenkör-Chēndan [||*] Marr=avarku=ppalıpp-inr vali-ttönn Udayagiri-madhyama-
- 62 tt=uru-sudar-pola=tterr-epru disai nadunga marr=avan velirpattu=chchū-
- 53 lı-yānaı telav=undı=pPālıväy=amar-kadandu Vılvēlı-kkadar-çānaiyai
- 54 Kelvēli-chcheru vengum viravi-vand-adaiyāda Paravarai-ppāl-padut-
- 55 tum=arukāl-iņam pudai tilaikkun=Kurunzttavar-kulan=keduttu-
- 56 &=kai-nnalatta-kaļig=undi=chChennilattu-chchern vengum pār-alavun=

¹ The pull is marked over me

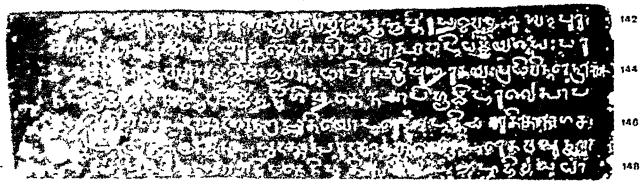
² Read tuytta".

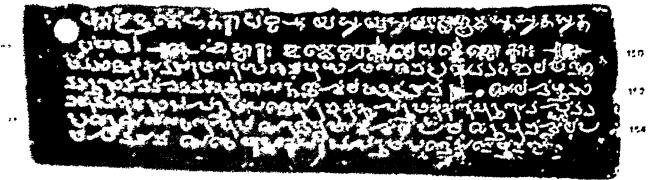
Velvikudi Grant of Nedunjadaiyan. the 3rd year





15 2





Fifth Plate; first esde.

- 57 [ta]nı-ohchenkör-Kërajanaı=ppala-mu[rayum=urimai]-ohchurram[öd=avar-yä]nai-
- 58 [y*]um purisai-mmadif-Puli[y*]ür=ppaga-näligai iga[v]āmai iga[l-ā].
- 59 ļi[y*]ul venru kondum vēl-āļi[y*]um viyan-parambum=ēlāmai sen-
- 60 r=erind=alittum Hiranyagarbhamun=Tulabharamun=darapimisai=ppala sey[du]
- 61 antaparkkum asaktarkkum vand-apaiga eng-Itt-alitta makarikai-api-mapi-
- 62 nedu-mudi-Arikësari Asimasaman ári-Māravarmman [||*| Marr=avarku maganāgi=kkorra-vē-
- 63 l valan-endi=pporud=urun-kadar-ranaiyai Marudurun manb-alitt=Ayave-
- 64 la agappida eysennāmai erindsalittuschChengodi[y*]um Pudāp[kö]t-
- 65 tun-cheru veng-avar-sigan-tavirttu-kkong-alarun-nagum-polilväy-kku-
- 66 [y*]1[lo]du ma[y*]1l=agavu=Mangalapuram=ennum mahā-nagarun Mahāratharat e-

Fifth Plate , second sade

- 67 rind=nlitt=arai-kadal-valagam podu-moli agarri=chchilai[y*]um puli[y*]um
- 68 kayalun-chenzu nilaiy-amai-nedu-varai-idava[y*]ir-kidky manu-inid-anda
- 69 tapp-alı-chchenkör-Reppa=Vānavap Sembiyap Solan mappar-mapna[n*] madu-
- 70 ra-Karunādagap kog-ņaviņra neduā-chudar-vēr-Kongar-komāp ko=chChadaiyap
- 71 Marr-avarku putranāy Man-magaladu poruțtăga matta-yanaı selav-undı mana-
- 72 vel valag-endı=kkadu-vısaıyāl=edirndavaraı Neduvayalväy nigar=ali-
- 73 ttu=kkaruv-adainda magattavarai=kKurumadaiväy=kkürpp=alittu Ma-
- 74 nnikurichchi[y*]un=Tirumangai[y*]u=munningavar muran=alittu mēvalo-
- 75 r-kadar-ranai[y*]od=err=ediroy vandavarai=pPuvalur=ppuran-gandun=
- 76 kodum-purisai-nnedun-kidangir-Kodumbāļūr=kkūdār-kadum-pari-

Sixth Plate , first side

- 77 [y*]un=karun-kalıçun=kadır-völı;=kaikkonduñ-Chēva [kü]dāda Pallavanai=k
- 78 Kulumbüruţ=ţēs-alıya enn-ıranda māl-kalırum=ıvu[lıga]lum pala kavarn-
- 79 dum tarıyalaray=ttarittavarai=pPeriyalür=ppid-alittum pfiviri y*]u-
- 80 m-polir-chölni-kKāviriyai-kkadanditt-alag-amainda vār-silai[y]in Mala-Ro-
- 81 ngam-adippaduttu mind-oliya-mani-imaikkum-elil-amainda nedum-pu-
- 82 rism=pPāndikkodumidi senr=eydi=pPasupatiyadu panma-pādam paņind=e-
- 83 ttı=kkanaka-rāsı[y*]un≕kadır-mani[y*]um mana-magula¹=kkuduttiţtun=konga-
- 84 r-van-naruh-kannı-kG2nga2-rājanodu sambandhan=cheydum enmırandana G6-
- 85 sahasramum Hiranyagarbhamun=Tulabharamum manninmisai=ppala seydu ma-
- 86 rai-nāviņor kurai-tīrttun=Kūdal Vanji Köli ennu=māda-mā-madi-

Sixth Plate, second side

87 i pudukkı[y*]um=aşai-kadal-valāgan=kuşaiyād=ānda mannar-mappa[u*]=Rennavarmaruga-

- n māna-ven-kudaimān=Rēr-Māran [||*] Marr=avarku magan-āgi Māl-uruviņ velirpa-88
- ttu=kkorra-münr=udan=ıyamba=kkulır-ven-kudaı man küppa Pü-magalum Pu-89
- la-magalum Nā-magalun=nalan=ētta=kKalı-araisan valı talara=ppolivinodu vI-90
- rrrundu karun-kadal-udutta perungan-ñālattu nār-perum-padai[y*]um pā-91
- gpada=pparappı=kkarudādu vand=edır-malainda Kādavanaı=kkād-adaıya=ppñ-vı-92
- rı[y*]um-punar-kalanı-kKavırı[y*]ın=renkaraımer=rann-agam-malar-cheholaı-93
- pPennagadatt=amar vengun=ti-vay-a[y*]il=endi=ttilaitt=edirey van-
- d=ırutta Ayavēlaı[y*]un=Kurumbaraı[y*]um=adal-amarul=alıtt=öttı=kkāttu-
- [k]kurumbu segr-adaiya Nattukkurumbir-cheru v[e]nrum-arai-kadal-vala-96

Seventh Plate, first side

- gam-oru-molu-kkoliiya silai-mali-tada-kkai Tenna-Vānavan avanē-97
- y Śrīvaran Śri-manoharan Śmachcholan Punappūliyan vitakanmashani 98
- vinayavisrutan³ vikramapārakan virapurokan marudbalan mānyasāsanan Manūpaman 99
- Kalippagai mardditavIran gitikinnaran kripālayan kritāpatānan gırısthıran 100 kanda-
- 101 kanishturan³ käryadatshinan⁴ kärmukha⁵-Pärtthan Parāntakan Panditavatsalan paripūrinan pā-
- 102 pabhiru kurai-uru-kadar-padai-ttanai- gunagrihyan gudhanirirnnayan6 nirai-uru-mala-
- 103 r-mani-nin-mudi-Neriya[r*]kon=Nedunjadaiya[n*] [||*] Marr=avanran vatsalam7 münrā-

Seventh Plate, second side

- 104 vadu selāmīpa ang=oru-nan=māda-mā-madīg-Kūdag-pādu ningavar a-
- 105 krodhikka=kkorravaney marr=avarai=tterrena nangu kūvi enney nun=kurai
- 106 enga mannaga-ppantt-arala mē-nā-nin-kuravarāg-pān-magai[y#]in
- 107 luvāmai māgan-toy=malar-chcholai=pPāganūr-kkūrrattu=ppaduvadu
- 108 ālva-tāṇai-adal-vēndēy Vēlvikudi eṇnum piyar-udaiyadu o-
- 109 lgada vēr-rānai[y*]od=oda-vēli udan kūtta Palyāga-Mudukudumi-
- 110 pPeruvaludi ennum Paramēšvāraņār⁸ Vēlvikudi ennappattadu
- 111 kēlvīyīr=rarappattadagai=ttulakkam-illā kadar-rānaiy=āya Kalabhra-
- 112 ral-ırakkappattadu enru nınravan vijnapyan-cheyya nanru nanr-enru
- 113 muruvalıttu nättä=nın palamaiyadal kāttı ni [kolgav=en]na nätt[ā]r=ran

Eighth Plate, first eide

- 114 palamanyadal kattinan-ang-appoludéy katta mé-nal-e[n]-kura-
- 115 varāṣ-pāṇmuṣaɪ[y*]ɪṣ-ṣarappaṭṭadai emmālun-tarappaṭṭad-enṛu śe-
- 116 mmānd-avaņ-edutt-aruli vir-kai-ttada-kkai-viral-vēndaņ Korkai-kiļā-
- n Kamakkani Narshingarku-ttër-ödun-kadar-ranasyan-piröd-attik[ko]-118
- duttamaı[y*]ın mair=ıdarku=pperu-nang-ellaı terrena viritt=uraip-
- pır=pugar-aru-polin=marung=udutta Kagarür-ellaikkum mēkkum marr=idarku=

¹ Read *kaimashan

^{*} Read omshihuran

Read gadhaurnayan.

² The original has the impossible combination °vifrsulan

⁴ Read *karyadahahanan 7 Read "catearam

¹ Reed karmuka".

⁸ Read nál.

- 120 ti[e]n ellai Kulandaivan-Külvandai-śe[j*]kkun=Kalandai-kkulattil=älukk[u]
- 121 vadakkum maşı=ıdaşku mēl-ellai aşşam-ıllā=kKoşşapputtū(r)r-Odumaiy-i-
- 122 ruppai-chchey-idai mörralai-ppei uppirku-kkilakkum marr=idarku vadapā-

Eighth Plate, second side

- 123 l-el[lai kāya]lut=kamalam malarum Pāyalul vadapālai=pperuppirku=t-
- 124 terkum ıvv=ıyaıt[ta*] peru-näng-ellaıyır-patţa pümı käränmaı miyātchi
- 125 nli-adanga mčl-en-guravai āg-kudukkappaļļa pai 16ēy emmālun=[ko]duk-
- 126 kappattadu [||*| Marr=idark=änatti kurram-inri=kkurunkälai=kkongar-van-na-
- 127 run-kannı-1kGıngarājanıdu kanyā-ratnam Kongarkörku=kkunandu koduppa ārp-
- 128 p-arā-adar-rānai-pPūrvvarājar pugang-elundu vil-vilavun-kadar-rānai-[Va]llabhanai
- 129 Venbarvāy ül-amarull-alınd-öda väl-amarul-udan-vavviya ėna-ppori2
- 130 igal-amarul=idi-urum-ena valan-enda [malai]tta-tünai-Madavikalan³ mannar-kō-
- 131 n-arulır=perrun=kol-valaıkkum-ver-ranaı-ppal-valaı-kkon kunara-

Ninth Plate , first side

- 132 ppatiu=ppor-vandavar-madan=tavirkkun=Karavandapurattavar-ku[la-t]topral mav=en-
- 133 dun = kadar rāṇai Mūvēndamaṅgalappērarai[ya]n = āgiya Vaidyaka-sikhāman! Mārangā-
- 134 rı [||*] I-ppıramadeyam-udaiya Korkai-kilän Kāmakkāni Śuvarañ-Jingan 1-
- 135 danul münril-onrun-tanakku vaitt-irandu-kürum aimpadinvar Brāhma-
- 136 naikku nirod-atti-kkoduttip [1*] Idapul Mürtti Eyinan savai[y*]od-o
- 137 ttadu nang-arai-ppadagaram-udaiyana [|*] Idanut-tanakku vaitta oru-kurrilu-
- 138 n=tambımükku nängun=tañ=chırrappapär-makkalıkku ärum sa-
- 139 bhai[y*]od=otta padagaran=koduttan [|*] I-pprasasti padina Senapa-
- 140 tı Enādı a[j*]iņa Šāttan-Chottarku mungu kurgarum-ay=t-
- 141 tangalod=otta nängu padagäran=koduttär ||4

Ninth Plate, second side

- 142 Āsit⁵-Mangalarājō Madhuratarah śāstravit=kavir=vvāgmī[|*] ājñaptir=asya Vaidyah Karavandapur-ā-
- 143 dhivāstavyah (18*) Ratshān=narah parakritau vidadhīta vidvān=pēdā hi Dharmma yasasah para-
- 144 masya labdhā[h*] [|*] Dhātr-aiva 7srashtam-akhılam 8bhuvanan-tath-apı ratshantrı9 punyaratayah 10prathivin=narēndrā[h] || [19*] ||4
- 145 Na lu bhūmi-pradānād=vai dānam=anyad=višishyatē [i*] na ch=āpi bhūmi-haranāt pāpa-
- 146 m=anyad=vidhīyatē 2 [20*] Dātā daś=ānugrahnāti¹¹ yō harēd=daśa han[†]1 cha [|*] atīt-ānāgatā-

¹ Read kKanga°

² These two syllables are written over an erasure

⁴ For the ornamental form of the punctuation, see Plate

o On the use of tsha for ksha, see above, p 1.

alead bhunanam.

¹⁰ Road pri'

⁸ Road onkalan

^{*} Read Asin=

⁷ Read spishfame.

Read 'nte.

¹¹ Rend grio,

- (V. 8). He, the patron of the learned, conquered enemy crowds in battles and ascended the scales; came out of the nectar womb (of the cow); and according to rule, gave away heaps of gold.
- (V 9) His son was the king called Ranadhira, whose prowess was equal to that of the youthful sun and who bore the burden of the earth as sportively as his ancestors were the necklace of (Indra), the chief of the gods.
- (V. 10). His son was the glorious king named Maravarman, a counterpart of Purandara (Indra); the dear lord of the beautiful lady, earth, whose pair of feet was surrounded by the collection of gems in the crowns of all kings bowing in obessance, whose friend was truth, whose wealth was prowess, the lord of the goddess of prosperity (Padmāsanā), who was an ornament of learning and good conduct and a depository of sacred knowledge
- (V 11) That lotus-eyed Rajasimha, the king of the whole earth, driving away the fear of created beings on earth, ably protected the earth unopposed (after) destroying the allied enemies
- (V 12). "Is he Nara (*e, Arjuna), is he a giant, is he Haia (*e, Šiva), is he the Primeval Man (Vishnu), is he Šakra (Indra) come with anger?" thus thinking of him, in the battle-field, the frightened king Pallavamalla runs away (from him)
- (V 13). Who being made to be born of the womb of the golden (cow) and having again ascended the matchless scales, was freed of (his) aims and showered freely (his) wealth on Brahmans, beggars and temples
- (V 14) This (king) Māravarman suitably married the daughter of the Malava king of high birth, and from her was born, for the good of the world, (the king) named Jatila almost equal to Skanda the son of Siva
- (V 15). That king of great strength inled the earth clearing it of (all) associations of corruption; the footstool of his lotus feet was worshipped by the great lustre proceeding from the gens on the crowns of prostrating kings
- (V 16) I imagine that he lent (his) virtues to the Krita (golden age), (he lent) to the celestral tree its nature, from his hands; to the subjects who sought refuge (in him), his promise of protection; and to the enemy kings on the battle-field, heaven?
- (V 17) May he be long glorious on earth, king Parantaka, the son of Rajasimha, whose commands are borne on the crowns by rulers of earth
- (L. 30) This praisate was composed by Verôdayabhatta who was a performer of all securices (Barvakratuyájen).
- (L 31). Narkogran, the headman of Korkai, who never transgressed the path of the Srutes as interpreted by the highly learned (men) of the division called Paganur-kugram,—a well-watered land of extensive paddy fields, where the heatles buzzed on cool buds in groves blooming with the Naga and the mango (trees),—being desirous of completing a (Vedic) sacrifice begun (by him), through (the favour of) the adhiraja of the Pandyas called Palyagamud-ukudumi-Peruvaludi, who dispersed the crowd of the enemy kings by leading numbers of ferocious elephants (against them), the kēlui-Brāhmanas, in presence (of the king) saying

¹ Those are the gifts which kings are expected to make on their coronation or on obtaining complications victory in battles. They were also explatory in character. See below, v 18

I he nature of the celestial tree is to give whatever is wanted and the hands of the king were giving away gifts on a very liberal scale. To give enemy kings heaven means to kill them on the battle field and by so doing to sond them to heaven.

- "Please hear (O king)" explained the petition (of Narkorran), stood in front of the sacrificial hall and blessed that spot to grow in prosperity under the name Velvikudi.1
- (L 38) The king at once gave it with libations of water and it was since long (10) enjoyed
- (L 39) Then a Kali2 king named Kalabhran took possession of the extensive earth driving away numberless great kings (ādhirāja) and resumed the (tillago mentioned) above
- (L 40) After that, like the sun rising from the expansive ocean, the Pandyadhiraja. named Kadungon, the lord of the South of sharp javelin who were (the cloak of) dignity and was the leader of an army, sprang forth, occupied (the throne), spreading round him the brilliant splendour of (his) expanding rays (prowess), destroyed the lings of the citensive earth surrounded by the sea together with (their) strongholds and (their) fame, wielded the sceptre (of justice) and removed by his strength the evil destiny of the godders of Earth whose splendour deserved to be under the shade of (his) white umbrella, by terminating by his strength3 the possession of her under others and establishing her in his own possession in the approved manner and destroyed the shining cities of kings who would not submit to him.
- (L 46) Then came his son Avanichülamanı Karayarman, who removed the common ownership of the earth (by making it his own), who was wedded to the goddess (born) of the flower (1 e, Lakshmi), the leader of a faultless army of fighting spearsmen, and the infuriated elephant who destroyed by rll (possible) means the power (of enemy Lings)
- (L 48) Then came his son, a lovely one and incomparable, the just ruler, Seliyan Vanavan, Sendan, the lord of the hill-chiefs who throw weapons (detterously), who removed the spots from the goddess of the earth, who became well known by his prowers and who possessed long hands (holding) the bow, and furious elephants
- (L 51) Then to him (was) born, a son,5 Arikēsari, Asamasaman árī-Māravarman, whose high jewelled crown was adorned with ornamental hangings, who, like the brilliant Sun from the middle of the eastern mountain, came out spreading his rays, causing the quarters to tremble, won the battle at Palı by driving into the field of battle caparisoned elephants, conquered the ocean-like army of Vilvēlie in the battle of Nelvēli; destroyed the Pararas who did not seek refuge by approaching him, annihilated the race of the people of Kuru-nadu where crowds of beetles abounded on all sides, won a victory at the battle of Sennilam by driving into battle (a herd of) elephants of strong trunks, conquered many a time during the day, in the terrible battle-field of Puliyur of strongly fortified walls, the Kerala (king) whose matchless sway (extended) over the whole earth together with (his) near relations and their elephants and captured them alive7, marched against, attacked and destroyed unopposed the sea of weapons, and the high mountains (of that country), performed many times on earth (the gifts called) hiranya-garbha and tulābhāra, and gave (the same) with pleasure to Brāhmans and the infirm inviting them to come and assemble

In blessing it, they actually suggested that the king might grant the village to the Brahman Narkorran under the name Vēlvikudi.

² Mr K V Lakshmana Rao, M A, has suggested in an article entitled 'The Kopparam Plates of Pulakesin II, contributed to the Annals of the Bhandarkar Institute, Vol IV, Part I, pp 43 to 54, that Kals-kula occurring flure in text-1 8 is possibly a reference to the Kalabhras He seems to be right, for the phrase Kalabhran=ennun= Kalı arassan ın 1 40 of the Vēlvikudı Plates properly translated means 'a Kalı kıng named Kalabhra'

^{*} Tiravidin is interpreted by Pandit R Raghava Aijengar of Ramnad to mean by his strength

As usual this 'spot' of the earth is her being in possession of kings other than himself

^{*} Dr Winslow gives under vals, the phrace valitiongal in the sense of 'a son'

⁶ Dr Krisbnaswami Aiyyangar holds the view that Vil-veli means 'a hedge of bows,' but here it must refer to a nume

The word -iravāmai is explained by Paudit Raghava Aiyengar of Ramnad to mean ' in a moment'

- (L 62) Then (came) his son King Sadaiyan, the lord of Kongas, whose javelins were long, brilliant and destructive, who was (also called) Tennan Vāṇavan, Sembiyan, Sōlan, king of kings, the beautiful Karunātakan, who with the victorious javelin in his right (hand), fought and destroyed the glory of the ocean-like army that came forth at Marudūr and capturing Āyavēl, attacked and destroyed him completely, gained victories in battles at Sengodi and Pudāṇkōdu, and brought his (i e, Āyavēl's) anger to an end, at the great city called Mangalapura, where the peacock danced with the cuckoo near tanks perfumed with opening flowers, attacked and destroyed the Mahārathas; removed the word "common property" (with reference to) the country (bordering) on the roaring sea, administered justice tempered with mercy and ruled the earth with love, having reached the slopes of the high and permanent mountain (Mēru) and cut on the broad face of it the bow, the tiger and the fish
- (L 71) Then (came) his son Ter-Maran (e.e., Maran of the horse-charlot) the king of kings, a member of the Pandya (Tonnavar) family, the proud possessor of the white parasol, who in order to acquire the goddess of the earth, carried in his right hand the awe-inspiring javelin and driving (forth) mast elephants (into the battlefield), defeated straightway at Neduvaval his opponents, who had rushed in great haste (against him), suppressed the rage of those whose minds were filled with anger (against him), at Kurumadai, destroyed the power of (the enemies) who confronted him at Minnikurichehi and Tirumangai; saw the backs of the insubordinate (chiefs) who advanced towards him with an ocean-like army, at Püvalür; captured the fiery steeds, the black elephants and the sharp missiles of enemies at Kodumbëlür which had high ramparts and deep tienches (round it), deprived the splendour of the Pallava (king) at Kulumbur and took numberless huge elephants and horses, humbled at Periyalür the greatness of those who had come to cut him asunder not bearing (to see his greatness), crossed the Kaviri (with als) groves (of trees) and tanks of budding flowers: subjugated Mala-Kongam with (the help of his) beautiful long bow; proceeded and reached Pandikkodumidi of high fortifications, beautiful with the lustic emanating from brilliant gems, prostrated at and worshipped the lotus feet of Pasupati (Siva), gave away with great pleasure heaps of gold and lustrous gems, contracted relationship with Gangaraja, who wore garlands of sweet-scented flowers, and performing on earth countless (gifts of) Gosahasra, hiranyagarblu and tuläbhara, relieved the distress of (the Brahmanas) who studied the Vedas. renewed the palaces and the high ramparts (of the capital towns) named Kūdal (10, Madura). Vañji (Kaiŭi) and Köli (Uraiyŭi) and ruled the whole earth (bounded) by the loaring ocean
- (L 88) Then (came) his son Nedunjadaiyan, the king of the Neriyar (i e, the Cholas), who (wore) a high crown covered with flowers and gems, who kept (his) council secret, who was respected for his virtues (and possessed) an army of battalions (as extensive) as the rising noisy ocean, who was afraid of (committing) sins, who had no wants, who was the lover of the learned (Panditavatsala), death to his enemies (Parantaka), a Partha (i e, Aljuna) in (wielding) the bow, clever in his designs, cruel to the wicked, the enemy of the Kali (age) (Kalippagai), the performer of noble deeds, the abode of mercy, a Kinnara in music, firm as mountain, the smasher of heroes, he who equalled Manu, whose commands were obeyed, who was strong as

¹ The king having conquered the Chēra and the Chōla, apparently appropriated their creats also, viz, the bow and the tiger and their titles Vānavan, Śembiyan and Śōlan

² The word eyennamaı is translated tentatively.

^{*} Sen-god: and pudan-koffu may have to be interpreted in the sense of 'brilliant flag' and 'brand new dram' (?), which perhaps were the boast of the Ayavel

⁴ I e made it a'l his own

^{*} We must understand after ennum, some word like nagarangain But it is also possible that mada mamadil is a recognised term (rūdha-nāma) for a capital town with palaces and fortifications, of the term as it occurs in l, 104

wind, the foremost of the valuant, marter of heroism, renowned for good believe one, free from (all) blemish, Punappüliyen, Sincoheholan, Srivare, the partitude of Sri (co., Lakehori), the Tennan (10., Pandya) and Vanaven (ic., Chem) I when long band built the bow and whose one word (of commend) was recepted by the carb (learned by) the noisy sea, who appeared in the form of Vishnu with victory times told? prove ting the earth under his cool white umbrella, well practed by the godders of the force (or lakehmi), the goddess of the earth and the goddess of the tongue (i.e., Surposet), . in larger his rule to brilliantly that the strength of the lord of Kali was weakened; who is the leaths of Pennagadam (surrounded by) an expanse of water and flavory grover and (electric) on the so others, bank of the Kaveri of blooming flowers and well-watered pully held, defeated the Kidava (king), who inconsiderately came and attrached (lim) with his four-fold by army spread on all sides of the extensive earth girt by the black ocean, and drove (him) into the forest; and who crushing and driving in a fierce bittle the Aya-Vel and the Eurumbas that came and ettacked (him) in great numbers, advanced with hery spears and gained a victory over their in a lattle at Nattukkurumbu (i.e., Kurumbu-nadu) (so that they) sought shelter in forests for (their) fortifications

(L 103) While the third year of the reign of this (king) was current, one (particular) day a bystander of Küdal (1 c, Madure) (the city of) marsions and high ramports, having cried out (by way of complaint)3, the king himself at once called him mildly and was planted to ask him first "what is your complaint" The bystander submitted thus "Oh! Mighty king of powerful army! Formerly without swerving from the pure (path) prescribed by law, (the village) called Vēļvikudi included in Pāgaņūr-kūrram, whose flowery groves touched the sky was designated Velvikudi and was granted through the liles (Brahmara) by your anesator, the great lord known as Palyagamudukudumi-Peruvaludi, who protected (the earth) girt by the ocean with an army of spearsmen who never miss (their aim). It has (times) beer resumed by the ignoble (yet) ocean-like army of the Kalabhras" The king gently smiled and said. "Very well, very well, prove your antiquity (of the gift) by (a reference to) the district (assembly) and receive (it back)" He (the supplicant) proved then and there, the antiquity of his (claim) by (a reference to) the district (assembly) Thereupon the powerful ring, of long arms holding the bow, being overjoyed was pleased to declare "what was granted formerly by my ancestor according to rule, is also granted by Us," and so saying he, of (many) chariots and occun-like army, gave (if) with libetions of water to Kamakkani Narchingan, the herdman of Korkai

(L 118). The four big boundaries of this (village) given in full detail are —(The cartern boundary is) to the west of the boundary of Nagarur surrounded on (all) sides by faultless flower-gardens. The southern boundary of this (is) to the north of the field (called) Külvandai-Ky of Kulandëvan and of the banyan tree in the Kalandai poid. The western boundary of this (is) to the east of the mound (peruppu) on the western side of the field (called) Odumniyiruppai-fey of the faultless Korranputtur. And the northern boundary of this (is) to the south of the mound on the northern side of (the village of) Pāyal where lotuses grow in causis.

(I. 124). The land included within the four big boundaries thus described is also given away by us, inclusive of kārānmai and mīyātchi, in the same manner as it had been given formerly by our ancestors

(L 126) The anatti of this (grant) correctly described is Madavikalan, Marangari, the crest-jewel of the Vaidyaka family entitled Müvendamangalapperaraiyan who was favoured by the king of kings, whose army fought powerfully like a thunderbolt, in battles where

¹ See foot-note 1 on p 807, above.

² Gen perpension could not be satisfactorily interpreted.

I have taken ükrödhikka to stand for ükröfikka from root kref with the prefix ä; see Nasskadkakinga h. I, v. 81, wdere ä-krufyafa is explaired 'eried out in order to expose a mistake committed'

machines shaped like wild hogs (ēnappori) killed (the enemies) in (close) fight with (drawn) swords when the kings of the east (Pūrvarājar) possessing elamorous battalions of fighting men rose up, and put to flight with (great) loss in an infantry attack at Venbai, the Vallabha of a vast army of archers, on the occasion when the excellent daughter of Gangarāja who wore a garland of highly scented flowers (dribbling) honey was secured and offered to Kongarkön (i.e., the Pāṇḍja king), who was a prince of the race of Karavandapurattavar, who possessed a powerful and big army that crushed the pride of those who came to fight being (thether) brough; together by (i.e., under the leadership of) kings wearing many bracelets and possessing an army of spearsmen who wielded deadly weapons

- (L 131). Kāmakkāni Šuvaraņ Šingan, the headman of Korkai, who owns this brahmadēya reserving for himself one-third of this (village), gave the (remaining) two parts to fifty Brāhmaņas with libations of water. In this are included the four and a half padāgāras (of land) of Mārti Eyin in approved by the (village) assembly. And in the part reserved for himself in this (village) he gave with the approval of the (village) assembly four padāgāras to his younger brothers and six padāgāras to his younger paternal uncle's children. And the owners of the three parts with their united approval gave four padāgāras (of land) to the general (Senāpati) Ēnādi alias Šāttan Šāttan, who composed² this eulogy (prašasi)
- (V 18) The ajaapti of this (document) was Mangalaraja, the very sweet (madhuratara) poet (kam) and orator, well versed in the sciences, a Vaidya and a resident of Karavandapura.
- (V 19) Oh! Dharma! A (learned) man must render protection to the deeds of others. Indeed (these are) the feet acquired by (i.e., on which stands) great fame. The world was all created by Dhātri (Brahman). Still kings desirous of merit protect the earth.
- (V 20) No gift is greater than the gift of land, nor is there a greater sin enjoined (on man) than (that of) resuming land (already given)
- (V. 21). Oh! Gladdener of your race! He that makes a gift on this earth blesses (his) ten generations past and future; and he that takes away (that which has been given) destroys ten generations past and future
- (V 22) To him that robs land given by himself or by others, there is no explation-anywhere except in the dreadful hell
- (V. 23) Lands have been given away by many. Different kings are ruling (them). The fruit (of protection) belongs to him whose land it happens to be (at the time). These four are verses in the Vaishnaya-Dharma
- (L. 151) "The flower-like feet of those who protect this (charity) shall be on my crown" The king himself was thus pleased to say and caused a copper-plate grant to be executed at once.
- (L 152.) Suttakësari-pPerumbanankkaran who engraved this (document), and to whom were alletted through the favour of the great mon (of the village) one house site, two mā of (wet) field and one³ dry field received (the above). This is the signature of Yuddhakësari-perumbanankka[ra]n.

^{&#}x27;See above, p 307. If we took Kongarkon as referring to the king of the Kongas, the reason for Marangari taking part with the Konga king will have to be explained. So far as we know, the Konga king was an enemy of the Pânlya and was on several occasions defeated by him

The word paging clearly indicates that the composition was in verse.

[,] Perhaps one ma.

the reading in the other document also, the sense being that as this king furnishes a living example people have to believe in the historical reality of the rulers like Prithu, Sagara, etc. The remaining two words, as is shown by this plate where they occur in line 35 and line 42, respectively, were correctly read by him

The charter was issued by the devout worshipper of Sugata or Buddha, the Paramesvara-Paramabhattāraka and Mahārājādhuāja, the illustrious Dēvapāladēva, the son aud successor of Dharmapala, who is regarded to have been the most powerful of the Pala kings of Bengal As I have just stated, its introductory portion is identical with that of the other grant and gives the genealogy of the donor which has already been discussed by scholars The formal part of the grant, which the inscription registers, is worth considering. The wording is the same as we find in the other document. The officials mentioned are also similar, including the "Pramatri" and the "Sarabhanga", excepting the "Prantapala" who is left out, though the order in which they are named is different. Amongst the names of the countries mentioned in line 35 of the Mungir (Monghyr) plate, this inscription puts Odia in place of Gauda and omits Lata altogether. Herein we are told that Dorapaladeva at the request of the illustrious Balaputradeva the ruler of Suvarnnadvipa, made through an ambassador, granted five villages, four of which lay in the Rajagrilia (Rajgir) and one in the Gaya tishaya (district) of the Sri-Nagarabhukti (Patna Division) for the increase of ment and fame of his parents and himself for the sake of income toward the blessed Lord Buddha, for various comforts of the revered blikshus of the four quarters and for writing the dharma-rainas or Buddhist texts (i.e. for the three jewels) and for the upkeep of the monastery built at Nalanda at the instance of the said The endowment, being entirely Buddhist, forms a distinctive feature king of Suvaranadvipa of the grant and amply justifies the epithet of parama-Saugata applied to the donor villages granted in the Rajagriha vishaya were Nandivanaka, Manivataka, Natika and Hastigrama and the one in the Gaya vishaya was called Palamaka case in such grants, this part of the document ends with the date of the endowment which is the 21st day of Kartika of the (regnal) year 39 and is written after the orders of the royal donor demanding regular payment of all the revenues due for the purposes noted above

The second side of the plate first gives the well-known imprecatory and benedictory verses and, thereafter, introduces Balavariman who acted as the dutake in this 'meritorious undertaking' and whom it describes as the 'overlord of Vyaghratati-mandala, ever leady to fight his foes independently' Evidently he was the official of the King of Magadha entirested with all arrangements to be made in connection with the grant Then the inscription supplies, though unfortunately too meagre, an account of Balaputradeva, the king of Suvaranadvira at whose instance the endowment was made giving, also, some information regarding his ancestry. It is mainly in this connection that this document is specially interesting and possesses considerable international value. We learn that the dynasty to which Balaputra belonged was that of the Sailendras, who were Buddhists and held the island of Java under their sway about the eighth century of the Christian era or the Saka year 700 The latter fact about the Sailendras is already known from the Kalasan inscription which has been published by Dr. (now Sn) R. G Bhandarkarl and D. J L A Brandes. But this Nalanda copper-plate introduces to history for the first time śri-Belaputradeva, 'the Sailendra King of Suvarnnadvipa together with some of his relations, as well as the $d\bar{u}taka$ (of the grant), namely, Balavarmman

The illustrious Mahārāja Bālaputradēva, our inscription tells us, was the overlord of Suvarnadvipa. His mother was Tārā, the daughter of a King Dharmasētu of the lunar race and

¹ Journal of the Bombay Branch of the Royal Assatro Society, Vol XVII, Part II, for 1887, Art I.

The Tydsorift voor de Taal,-Landen-Volkenkunde van Nederlandsch Indië, XXXI (1886), p 240 sq.

the queen consort of the mighty king who was the con of the renewned ruler of "Yavehhumi." The latter, we are told, was the orn ment of the Soilendra dynasty and this name was conformable to the illustrious cruzher or tormentor of his brave enemies.'. Though the epigraph gives h gh praises for all these rulers, yet it contains no other information regarding their identity. The name of the fither of Balaputradeva is not given at all but the name of the grandfather is said to have been something like 'Sri-tira-vairi-mathena', meaning 'the illustrious destroyer of heroic fees' This would lead us to surmise that the name must have been one like Parary arddi-dēva, Šatrunjaya, Arimarddana, Arindania, etc., but what it really was I am not in a position to find out. The Yavabhümi and the Suvarnnadvipa are evidently identical with the Yavadvīpa and the Suvarnnadvīpa islands spoken of in Sanskrit works I be the Romananal or the Kathasarrisagaras and are unquestionably the modern Java and Samatra While speaking of Balaputradeva as the Ling of Suvarnnadvipa and his grandfather as the ruler of Yavabhami, the author of our inscription, apparently, took both the islands as one considering them practically united As M. Duroiselle kindly tells me, the convenue of opinion, arrived at by scholars like Barth and Kern, is that Suvarnindvina and Yavadvina are the same, that is Java-Sumatra The document goes to confirm the view that Yavadvīpa is Java proper and that Suvarnnadvipa is properly Sumatra This Suvarnnadvipa, however, is different from the Suvaranabhumi, which, as M. Duroiselle has kindly informed ric, in its most extended sense refers to Indo-China, but, particularly, to the country extending beyond the eastern and northern coasts of the Bay of Bengal or Ramañandesa (1 c, lower Burma)

Now the question which would present itself for golution is, who were the Sailondras mentioned in the plate? There are only two Javanese inscriptions in Nagari, known to me, which were issued by a king of the Sailendra dynasty One of them, to which I have alluded above, commemorates the foundation of a temple of Tara, the well-known Goddess of the Mahayana pantheon, the setting up of her image, and the building of a monastery in the year 700 of the Sala era during the prosperous reign of a king of this dynasty' whose name to our regret is not forthcoming The other inscription is not yet published and the following information regarding it I owe to the courtesy of Dr Bosch, Director of Archeology in Netherlands-India. It comes from Klurnk, a site between the Prambanam and Sewu-temples in Central Java and belongs to the Saka year 704, the object being to commemorate the erection of an image of Manjusil, another noted divinity of the Mahayana pantheon. In one of the lines of this inscription Dr Besch reads rajña dhrita dhritinata dharanindranamna and finds the king's name to be Indra, though one could take it to be Dharanindra (carthly Indra) as well. Yet another inscription I know of, which is connected with this evasive race of the Sailandras, comes not from Java but from India and, like our Nalanda inscription, records the erection of a monastery and an endowment for it. It is engraved on twenty-one copper-plates now preserved in the Leyden Museum in Holland and belongs to the reign of the Chola King Rajaraja-Rajakësari-This highly interesting document tells us that the illustrious king Maravijayottungavarmman of the Sailendra dynasty and the lord of Srivijayas caused to

Canto IV, Chap XL, St. 30, and the Telaka commentary on these verses Here we find that Java in remote antiquity formed a large principality which comprised not less than seven minor states.

[ा]त्वे प्रकृताने राज शेले-द्रवय तिल्ला Dr Bhandarkar read in the sixth line of this inscription SailEndraname he took to be Panankarana The correct reading, however, as the late Dr J. L A. Brandes has
Execut these two instances.

Except these two macriptions there exists a number of fragments of inscribed slabs, which according to Dr. Bosch, might be attributed to the Sulendra race but they are all too weather-worn to be deciphered p. 221).

be built a lofty and very beautiful monastery at Nagapattana, the present port of Negapatami and that it was endowed by the Chola king Rajaraja, thus furnishing an exact parallel to the NElanda monastery of our plate? This Srivijaya is the same as the San-fo-tsai of the Chinese Annals and, according to M. George Coedes, must be identified with the kingdom of Srivijaya or Palembang, which is a residency of Sumatra 3 The Leyden great says that Maravijayöttungavarmman was the overlord (adhipati) of Śrivijaya who, while extending the Lingdom of Kataha, cansed that monastery to be built in the name of his father. Thus on the authority of this invaluable record it becomes clear that, about the end of the 10th century A. U., Sumatra was governed by the Sailendra dynasty to which king Miravijayottungavarmman or his father Chiidamanivarmman belonged That both Sumatra and Java were under the sway of the Sailendras about the minth century we glean from the Nalanda conner-plate inscription That they were governed by the same dynasty in the seventh century of the Christian era we learn from the two inscriptions to which I have referred above. In one of the inscriptions' engraved on the south wall of the well-known temple at Tanwore we find that Rajondra-Chola caught a king of Kadaram, named Sangramavijayöttungavarmman. and took his vehicles as well as accumulated treasure. This king of Kadaram in the light the Leyden grant was, probably, the successor of Maravijayottungavarmman. the Sailendra king of Srivijaya spoken of in it. If the Tanjore inscription is to be trusted-I do not think there is any reason why it should not be we can say that Rajendra-Chois, while capturing the king, succeeded in conquering the kingdom of Srivijaya or Palembang The Leyden plates tell us that he confirmed the grant made by his father Rejaraja for the monastery built by the Sailendra king Maravijayottangavarmman or the predecessor of the very ruler whom he caught and dispossessed of heaps of treasures. This would lead us to surmise that Sangramavijayottungavarimman proved refractory and the Chola King had to take the extreme step to bring him round. Here it may be remarked that in the documents, known at present, these Sailendras or the rulers of Sriviaya are no where mentioned as the feudatories of the Cholas or other Indian kings. Building convents or viheres in one's territory does not necessarily indicate tutelages though it does show friendship or mutual regard. That the Sailendras founded monastenes in India at Nalanda or elsewhere certainly signifies their being fervent Buddhists. These viharus, like the one founded at Bodh Gaya by Meghavarm of Ceylon during the Gupta epoch, gave shelter to their own people as well as others Devapsladeva was a staunch Buddhist. He endowed the monastery, which Balapatradova, the Javanese King, founded at Nalanda, at the latter's express request, communicated to him through a dutaka or ambassador. But this fact alone cannot imply that the ruler of Java was a vassal of the King of Magadha. Though the capture of the King of Kadaram by Rajendra-Cholain later days indicates submission no doubt, yet I think, to show that the Sailcadras were really the feudatories of the Cholas, proof is still wanting. Under the existing circumstances what we can safely assume is that the relations of these Kings were rather based on trade and traffic and were of a peaceful nature.

¹ It was probably this structure, which, as the late Mr. Smith has said in his Eurly History of India, 3rd ed, p, 466, survived in a runous condition until 1867, when the remains of it were pulled down by the Jesuit fathers and utilised for the construction of Christian buildings.

³ The splendid convent built by King Maghavanas of Ceylon at Bodh-Gaya mear the huly Bodhidruma about the year A. D. 380 with the permission of Baundragapta, the Great, affords another sustance of this kind. For a brust account of it see Smith's Ancient History of India, 3rd ed., p 287.

^{*} Encyclopmenta Britannica, XI ed., Vol. XXVI, p. 73. For mention of Scivijaya in an old Malaya inscription probably of the 7th Century A. D., lately found in Palembang, see Ph. S. Van Ronkeb's notice in the Acta Orientapia, Vol. 11, Part I, p. 21

South-Indian Inscriptions, Vol II, pp. 105 ff.
 The late Mr. Venkayya (A. S. E., 1911-13, p. 175), apperently, assumed that the Sailbudga, were fradatory to the Chola Kings.

connection with the Cheaf family! It is also noteworthy that sometimes their names and in From the 14 ords noticed above we find that the names of the Sailendias of Java-Samster or Silvipra ended in raimman 3 The name of the Sailondra ruler given in the This looks rather strange The name Bala-Naland's plate on the other hand ends in diea paten uself, signifying 'young son' is curious. This ending of deed, however, occurs only in the proper and formal portion but not in the other or netrical portion, which describes and enlogists then Suilendras. This would go to suggest that the suffix was left out because the more did not require it, or resultly because it did not form an integral part of the name and would have been replaced by carmman, a general suffix or surname of the ruling caste or the Kshatryas The name, however, is pure Sanskit as is the name of Taia the mother of Balaputraders, or Dharmasetu, ber father, and would point to emigration from India. Had the rames of the two ancestors of Balaputradeva, that is to say, his father and grandfather, been given we could be definite in the natter, for if these names were un-Indian, as in the cur of Kunlings, his son Afraniman and grandson Mülavaiman of Borneo, we could conclude that the Smokket names must have been taken after conversion to Hinduism, or rather Buddlesm. But in none of the names of the Sailendras do we find any foreign sound at all, sugge ting that they were the na ises of the islands originally and came into the fold of Bud linean afterwards

The names of the Päla kings and other personages mentioned in the introductory portion of this grant have been dealt with by Kielhoin or other scholars in connection with the contents of the Mungli copper-plate inscription. So I need not notice them here. But, besides them and the Śailčudris, our record speaks of two more persons and they require special mention. One of them is Dharmasčtu whom the inscription describes as a scion of the Lunar race and the father of Bülaputradēva's mother, namely, Tāiā. To our regret it does not supply any other particular regarding him and it is bardly possible to identify him or to say

Mr. K. V Sabrahmanya Ayyar, to whom I am indebted for this information, has kindly given me the following note on the Malayamars —

"Ancient Tamil works mention the names of a number of Malajaman eliefs, who might be attributed to the 7th and 8th centuries A. D. Some of these are —(1) Malajaman Tirumuhikkari, (2) Malajaman Śchya-Enādi Tirukannan, (3) Malādar-Komēn Meyppo-nļ-Nāyanār and Karafinga-Munajyarijar of Tirumuhanpādi. Their capital was Tirukoilur, the head quarters of a falul in the South Arcot district and a railway-station in the Katpādi-Viji puram section of the South Indian Railway. It is said to have been situated within the Chēdi country.

The Malifyanian chiefs appear to have been rendering help to one or the other of the principal powers of the South, viz, the Cho a, Chôla, Pândya and the Pallara. Narasingamunalyarayar was a contemporary of the Saiva saint Sundara-Mūrti-Nayanār of the 8th century A D he is counted as one of the canomised 63 Saiva devotees of the Tamil country. In the account given of No 3, in the Tamil hagiology, Persyapurānam figures a Tatton, whose name may be regarded as a variant of Datta. Resides, one of the poems of the Tamil anthology, Pattuppātļu was composed in honour of a cortain "Ārya king Piragadattan (Bhrigu-Datta)". It may be noted that the Malaiyamān chiefs beloi ged to the Bhrigu race as is evidenced by their inscriptions Epigraj lucal reference to Narasinhiamunaiyaraiyai is found in the Tanjore inscriptions of the Chola. King Rājarāja I (A D. 955 1013). In an early stone record of hājukēssrivarinan found at Tirunāgāsvaram nesr Kumbakonam, of about the 9th century A D mention is made of Milādudaiyar-palļi

It is interesting to note that the later members of the Malanaman family, who figure in numerous stone inscriptions, call themselves invariably Chiddynrajas (Cledirajas) and they are mostly subordinates of the Chōjas of the 10th to the 13th certuries A D. The appellation Chōdoyarāvan, assumed by almost all the chiefs, if it is not a mere accident, as it could not be, must indicate that they were the rulers of the Chōdo country. This fact taken with the names like Datta would make one infor a colonisation at some remote past of a branch of the line of Chōdo Kings, in the South Arcot district, where we find them."

* E Hultzsch, Ep. Ind , Vol VII, pp 185 and 145

*Dr. Vogel in the aforesoid publication (page 191) remarks —" Considering that among the dynasties of India proper there is a great variety of such royal surnames, as āditya, gupta, chandre, devapala, rātu, vardhana simha, and sēna, the a'most universal employment of names in tainman in the fir knet a certainly very remarkable." The instance of our Balaputradēva will furnish an exception

2 x

whether he was an Indian king or some ruler in the Far East The name whether it is read as Dharma or Varma-sētu appears to be new The other interesting name occurring in the document is that of Balavarmman the ruler of Vyaghratati-mandala, who acted as dutaka on behalf of the Magadhan king. As to why he was selected or what special connection he had with the ruler of such a remote island as Sumatra or Java, and whether he had been there or known personally to that king our inscription makes no mention Apparently, there was no direct political relationship between the two, for, we know from the Khalimpurl plate of Dharmapāladēva that the Vyāghratatīmandala lay within the bhukti of Pundravardhana, which was under the sway of the Pala king Dharmapala and, evidently, of Devapaladeva after him. Pundravardhana is the same as Paundravardhana-Pundra and Paundra being synonymous-which is the modern Rajshahi district of Bengal3. The use of the word adhipati would indicate that in this instance at least the term mandala connotes a larger area than vishava, which in the majority of cases seems to include a mandala3. During the reign of Dēvapāladēva, Vyāghratatī was governed by a distinct ruler called Balavarmman. The way in which he is praised in this epigraph, as the right arm of the Emperor, would show that he had a high rank even though he was one of the feudatories of Devapaladeva As, however, our plate gives no genealogy or particulars about him his personality is very vague. A few homonymous rulers are known to have flourished about that time but they appear to be quite different personages and even their dates will not agree with that of this plate It looks curious that though the charter mentions the dutaka of the King of Magadha yet it leaves the ambassador or ambassadors of the Javanese King unnamed altogether.

The vague manner in which the inscription describes the rulers of the Far East or Sumatra-Java and their relative king of the lunar race would show that its author did not know much of them. He knew of Balaputradeva and his mother Tara. The latter he compared to the goddess of that name. It is not improbable that the grant registered in the epigraph was made chiefly at her instance.

Our plate mentions several places calling for remarks Out of these, I have already noticed three, namely, Suvaranadrīpa, Yarabhūmi, and Vyāghratati Of the remaining ones Nālandā is the most important. The way, in which this record speaks of it, would show that it continued to be as important a centre of Buddhist lore as it was during the time of Hiuen Tsang's visit. The spelling of the name given in this document is Nālandā which is the terrect way of writing it. The same spelling is given in a votive inscription on the image of

¹ Zp. Ind., Vol. IV, pp 243 ff J B R A. S, LXIII (1894), pp. 39 ff.

^{*} Smith Early History of India, p. 373. As has already been stated by Cunningham (A S R, Vol. XV, pp. 112 ff.) Käntära is another name of Pundra or Paundra, i.e., sugarcane, and the Mahäkäntära of the Allahabad inscription of Samudragupia, the Great, was probably an older name of this province which, about the middle of the fourth century of the Christian era, was governed by a King Vyäghra. Thus it does not appear to be improbable that the district of Vyäghratafi or the tiger's precipies—unless of course vyäghra is taken in the sense of castor oil in which case the word Vyaghratafi would be the slope marked or overgrown with castor plants,—was named after this tiger king.

This would rather show that no mistake was made in the text of the Khalimpur grant and that Kielhorn's statement in the Ep. Ind., Vol. IV, p 258, footnote 3 that it was, will be obviated

^{*}Pôr instance we know of a Balavarman, the lord of Prāgjyōtisha (Gauhati or Assam) from the Nowgong copper-plate (Ur A F. Hoerale, J. B. A. S LXVI, pp 235 ff.) and another of Kārūsha or rather Bṛḥadgṛḥa (Kielborn, Iād. Ant Vol. XX, pp 123 ff.). On palæographic grounds the former of the two has been assigned to the last quarter of the 10th century or say nearly one century later than the date of Dēvapāladēva. The other is too hitle known to admit of identification. The third rater of the name, who will synchronise with our document, was the father of Avantivarman II, who was the fendatory of Mahēndrapāla of Kannuj (cir. 890 A. D.). To think of identifying him with the Balavarman of the Nālaudā plate will be altogether nureasonable, for he was the ruler of Kathiawar, or Baurāshipa and a fendatory of the formidable rival of the monarch of Bangal.

Sankarshana which was dug out of the same site and the newly discovered statue of Tārā. It again occurs not only in some Jama writings but such an old work as the Lighanikāya2. However, it seems to be noteworthy that none of these works called Nālandā a university but only a prosperous town though Hinen Tsang describes it as if it were a University. The way in which it is de-cribed in our plate would show that it was really a centre of Buddhist learning

As to the remaining place-names mentioned in this document, I think, Srinagara or Srinagara-bhukti must be identified with modern Patna, which as a district, includes Rājagriba (Rājgir) and, as a division or commissionership, comprises the district of Gayā, even now. It is true that in the Khalimpur grant of Dharmapāladēva, which has been referied to above, the name given for the city is Pātaliputra and not Śrinagara or Nagara, still, I think, there were two disignations, the one, viz., Pātaliputra, which meant the whole town and the other, viz., Śrinagara, the main part of it, like the Bankipore of to-day. Nagaia means the chief town generally, but in this case it meant the town, the prefix Śrī implying prosperity or wealth of the town. In other words Pāṭaliputra was the pattana³ and the seat of Government, especially in earlier days during the supremacy of the Mauryas or the Imperial Guptas,⁴ lay there, and Śrinagara was its principal portion where the office of the bhukṭi or division was situated. One was concerned with the whole government but the other only with eight hundred⁵ villages coming in its jurisdiction or bhukṭi. Thus Śrinagara must have been a part of the whole which was termed Pātaliputra ⁶ That, apparently, is the reason why the latter and not the former appellation of the town is to be met with in literature.

That Rajagriha and Gaya are respectively the Rajgir and Gaya of to-day requires no demonstration. The latter is a district still, though the former has now dwindled into a luined town of the Bihar subdivision of Patna.

Regarding the villages which formed the object of the grant or endowment registered in the charter, we are told that Nandivanāka and Maņivātaka were situated in the Ajapura-naya subdivision, Natikā in the Pilipinkā, and Hastigrāma in the Achalā-naya or subdivision of the Rājagņha vishaya or district, and that Pālāmaka was situated in the Kumudasūtra vīthī, a subdivision of the Gayā district. If similarity of sound can be depended on, I would propose the following identifications to which proximity of Nālandā will lend a great support. The Ajapura 'naya' or subdivision of the inscription may possibly be represented by the Ajaipur⁷ village in the Ajai Hisse Chahāram Mauzā in the Bihār Thānā and the two villages Nandivanāka and Maṇivāṭaka, granted in it, would be the Nsdiune or Naunvan and Manianwan villages of these days, which are included in the Bihār Thānā. Pilipinkā I am inclined to identify with the Pilkhi or Pilkee Mauza and the Naṭikā village with the Nai Pokhar of to-day, both lying in the Silāo Thānā. Though I am unable to offer any identification for the ancient Achalā yet, I fancy, the village Hasti or Hastigrāma of the grant might be the Bethoa Bīghā village of the Bihār Thānā if not the Hathi Toļā of the Maner Police subdivision. The old village directory⁸ of the Gayā district available to me does not, apparently, give any name

¹ See my Annual Report of the Central Circle, (Patna), for 1921, p. 5 and J B B. O. R S, Vol X, pp. 30 ff

² Vol I pp. 1 & 211-12

[ः] Cf. 'प्रभागभूतं भगरम्', Bharata quoted in the Śabdakalpadruma under Nagara.

⁴ Cf प्राणं यह राजधानी स्थिता and जगरमध्यतग्राममध्ये तद्व्यवद्वारस्थानम् , Yasûdhara m bis Jayama sgalā on the Kāmasūtra of Vātoyāyana (N S. Edition), p 44

Even in the Khalimpur grant the erimejjayaskandhātāra, or royal camp or headquarters lay at Pātalipuirs. For the meaning of this expression of, V. Smith; Early History of India, p 898 and footnote 2.

⁶ Similarly, I would identify the nagara-bhukti of the legend on the seal, which, Dr Spooner discovered during his explorations of the site (see his A P R. (E C) for 1916-17, p. 48) with the Śrinagara-bhukts of this

decument
7 Village Directory of the Presidency of Bengal, Vol XXVI (Patna District).

Pillage Directory of the Freedency of Bengal, Vol. XXVII (Gnya District).

resembling the Kumudasūtra (or sūnu) or the Pālāmaka of our record and I refram from offering a conjecture regarding their identity

In connection with these place-rames, it is interesting to note, that our document supplies one or two territorial terms, which appear to be new The term mandala, as I have remarked above, is here used, as in the grant of Amina II,1 in the sense of desa, of which ushaya was a subdivision The word 'vithi', which generally signifies a market, road-way or the like, appears to have been used, in this charter, in the sense of a division smaller than ushaya. Similarly the term 'naya' seems to imply a like division. The use of these terms would show that bhukte was divided into mandalas which were subdivided into reshayas, the latter being again portioned into vithis or nayas? It is noteworthy that our document employs the term naya in the case of Rajagriha rishaya and vithi in the case of Gaya rishaya occurs regularly after (1) Ajapura, (2) Pilipinka and (3) Achala, which lay in the district or eishaya of Rajagriha, while the latter term is to be found in connection with the district or ushuya of Gaya only This would indicate that in the two ushayas, which were so contiguous to each other, there were, probably, different subdivisions made, apparently, for revenue purposes. Rajagriha being subdivided into nayas and Gaya into vithis Thus, we can say that the villages Nandivanāka and Manivātaka lay in the subdivision or naya of Ajapura, Natikā in the naya of Achala, all these falling within the Rajagriha ushaya The village of Palamaka, on the other hand, which belonged to the district or rishaya of Gaya, lay in the subdivision of Kumudasütra, i e., Kumudasütra-vītli 3

TEXT. Obverse

Meires used · Sārdūlavikiīditam in vv 1, 7, 8, 13, 14, 30, 31, 32, 33, Praharehiņī in vv. 2, 26; Vainsastha in v. 3, Upajāti in v 4, Indravajrā in v 5, Aupachchhandasikam in v 6, Āryā in vv. 9, 11, 22, 23, Harinī in v 10, kathoddhatā in vv 12, 15, Anushtubh in vv. 16, 17, 18, 19, 29, Vasantutīlakā in vv 20, 24, 25, 27, 28, Pushpitāgrā in v. 21, Bragdharā in v. 34.

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<sup>4</sup>ग्रीं सस्ति । सिद्वार्यस्य परार्थेसस्थित<sup>6</sup>मतेस्त्रनागभा[भ्य]-
2
                                                                             स्रत-
       सिंदिसिंदिमनुत्तरां भगवतस्तस्य प्रजास
3
                                                                            त[।*]
       यस्त्रैधातुक्रसत्वसिद्धिपद्वीरत्युग्रवीयोदया-
       न्निला
             निर्देतिमाससाद सुगतस्त्रवीर्धभूमीश्वर:- [॥ १॥] सीभाग्यन्दध
Ŀ
5
                                                            दत्तलं श्रियसापत्ना
                  पतिरभवद्वसुन्धरायाः
        गोपात्त:
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¹ Ind Ant., Vol VII, p 16; cf Pleet, CII, Vol 171, p 32, footnote 7

² It may be noted here that the term rithi is also used in the sense of a division in the Ghughrabati plates of Saracharadeva which have been edited by Mr R D Banerji, in the August 1910 number of the Journal of the Asiatic Society of Bengal Mr Bhattasal, who is re editing the grant for this journal, seems to take the word ir .ts usual sense, but, in the light of this Nalanda document, his rendering cannot hold good

^{*} The reading cap also be supp

⁴ Expressed by a symbol.

Lie'hen has (oge

в 줃~ ष्टान्ते सति क्रतिनां सराचि यसिन अहेयाः प्रथसगरादयीप्यभूवन् [॥२॥] विजिला येना जलधेर्वसस्यगरिवसोचिता 7 मीवपरियद्वा इति। सवाय्यसुद्राय्यविलीचनान्पुनवैनेषु व(व)म्यून्दृहग्रमीतङ्गजाः ॥[२॥*] चलत्ख्-नर्नेष व(ब)लेष यस्य विश्वभरा-या निचितं रजीभिः 8 पाटप्रचारच्यममलारिच्यम्बद्धमानां सचिरम्व(म्ब)भूव ॥ १८॥ भी शास्तार्थभाजा चलतोत्रमास्य वर्गान्मतिष्ठापय-ता खधरमें।*] 9 श्रीधर्मपालेन स्तेन सीभूत्सर्गस्थितानामचणः पितृणाम् ॥[५॥*] रिव जडमैर्येटीयैविंचलडिहिंरटै! कटर्थमाना निरुपप्रवसस्व(स्व)रं प्रपेटे शरणं रेखनिमेन भूतधात्रो ॥[६॥*] 10 विधिनोपश्रुत्रपयसां गंगासमेते म्वु (म्बु) धी । गोकपणीदिषु चाव्यनुष्टि-तवतान्तीर्थेषु धर्म्याः क्रियाः [1*] 11 भ्रत्यानां सुखमेव यस्य सक्तलानुहत्य दुष्टानिमान्हीकान्साधयती[5*]नुषक्रजनिता सिडि: परत्रा-12 प्यभूत ॥ [७॥*] ^१तैस्तैदिग्विनयावसानसमये संप्रेषितामां परै: सलारैरपनीय **खेटमखिलं स्तां** खां गतानां सुवम [1*] क्रत्यं भावयतां यदीयस्चितं प्रीत्या चृपाणामभूत

13 यदीयसुचितं प्रीत्या छपाणामभूत् स्रोत्तरण्डं ऋदयं दिवश्युतवतां जातिस्प्रराणामिव ॥[८॥*] श्रीपरव(ब)सस्य दुष्टितुः चितिपतिना रा-

14 प्रमूट⁰तिस्रकस्य।
रण्णादेव्याः पाणिर्जग्रहे ग्रहमेधिना तेन ॥[८॥*] प्रततन्तरियं सद्योः
साचात्वितिनु शरीरिणी । किमवनिपतेः कीर्त्तिमृ-

¹ Two strokes in place of one.

² Symbol for Hat the end of a pāda is peculiar.

⁸ Kielhorn has संसेता^o.

⁴ This danda could be left out.

⁵ Kielhorn has तेर तेर which cannot be correct.

The way of writing the letter z is peculiar.

This danda could be left out.

resembling the Kumudasūtra (or sūnu) or the Pālāmaka of our record and I refrain from offering a conjecture regarding their identity.

In connection with these place-rames, it is interesting to note, that our document supplies one or two territorial terms, which appear to be new The term mandala, as I have remarked above, is here used, as in the grant of Amma II,1 in the sense of desa, of which ushaya was a sabdivision. The word 'vithi', which generally signifies a market, road-way or the like, appears to have been used, in this charter, in the sense of a division smaller than rishaya. Similarly the term 'naya' seems to imply a like division. The use of these terms would show that bhukts was divided into mandalas which were subdivided into tiskayas, the latter being again portioned into vithis or nayas? It is noteworthy that our document employs the term naya in the case of Rajagriha vishaya and vithi in the case of Gaya vishaya The former occurs regularly after (1) Ajapura, (2) Pilipinka and (3) Achala, which lay in the district or rishaya of Rajagriha, while the latter term is to be found in connection with the district or ushaya of Gaya only This would indicate that in the two ushayas, which were so contiguous to each other, there were, probably, different subdivisions made, apparently, for revenue purposes, Rājagriha being subdivided into nayas and Gayā into vilhis. Thus, we can say that the villages Nandivanāka and Manivātaka lag in the subdivision or naga of Ajapura, Natikā in the naga of Achala, all these falling within the Rajagriha rishaya The village of Palamaka, on the other hand, which belonged to the district or reshaya of Gaya, lay in the subdivision of Kumudasütra, 1 e., Kumudasütra-vilki 3

TEXT. Obierse

Metres used · Šārdūlavikrīdītam in vv 1, 7, 8, 13, 14, 30, 31, 32, 33, Praharehinī in vv 2, 26, Vamsastha in v 3, Upajūti in v 4, Indrarajrā in v 5; Aupachchhandasikam in v 6; Āryā in vv 9, 11, 22, 23, Harinī in v 10 ; Kathoddhatā in vv 12, 15 ; Anushtubh in vv 16, 17, 18, 19, 29; Vasantatılakā in vv 20, 24, 25, 27, 28, Pushpitāgrā in v. 21, Sragdharā in v. 34.

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<sup>4</sup>ग्रों सस्ति । सिद्वार्थस्य परार्थसुस्थित<sup>5</sup>मतेस्तन्त्रागीम[भ्य]-
2
                                                                             स्यत-
       सिंदिसिंदिमत्तरां भगवतस्तस्य प्रजास
3
                                                                            ব[।*]
       यखीभातुकसत्वसिद्विपद्वीरत्युग्रवीर्योदया-
       िस्रता
4
             निर्हेतिमाससाद सुगतस्त्रर्वार्धभूमोग्बर:- [॥*१॥] सीभाग्यन्दध
 5
                                                            दत्तर्सं श्रियसापत्न्या
        गोपात्तः
                 पतिरभवद्दसृश्वरायाः
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¹ Ind Ant., Vol VII, p 16; cf Fleet, CII., Vol 171, p 32, footnote 7.

² It may be noted here that the term rithi is also used in the sense of a division in the Ghughrahati plates of Son acharaders which hav been edited by Mr R D Banery, in the August 1910 number of the Journal of the Asiatic Cociety of Bengal Mr Bhattasal, who is re-editing the grant for this journal, seems to take the word ir its usual sense, but, in the light of this Nalanda document, his rendering cannot hold good

The reading can also be si "

Lapressed by a symbol

Liebom has force

6	₹-
	ष्टान्ते सित कतिनां सुराज्ञि यिखान् अहेयाः प्रथुसगरादयीप्यभूवन् [॥२॥]
	विजित्य येना जलधेर्व्यसुन्धराम्विमोचिता
7	मीवपरियद्या इति।
	सवाय्यसुद्राप्यविनोचनारपुनर्वेनेषु व(ब)स्मृत्स्टग्रमीतङ्गजा: ॥[२॥*] चलरख-
	नन्तेषु व(व)त्तेषु यस्य विश्वभारा-
8	या निचितं रजोभि: ॥¹
	पादप्रचारचममन्तरिचम्बिष्टप्रमानां सुचिरम्ब(म्ब)भूव ॥[४॥*] प्रास्त्रार्थमाजा
	चलतोतुशास्य वर्ग्णान्प्रतिष्ठापय-
9	ता स्वधमीं[*]
	न्योधर्मपालेन स्तेन सीभूरखर्गस्यितानामन्त्रणः पितृणाम् ॥[५॥*] अवले- रिव जङ्गमैर्यदीयैविचलक्किंदिदेः कदर्थ्यमाना ।
10	
10	निरुपप्रवसम्ब(म्ब)रं प्रपेटे श्ररणं रेखनिमेन भूतधात्रो ॥[६॥*] वीटारे विधिनोपयुक्तपयसां गंगाससेते मृतु(म्बु)धी । गोकपर्णादिषु चाप्यनुष्ठि-
11	तवतान्तीर्थेषु धर्म्याः क्रियाः [।*]
	भवानां सुखमेव यस्य सकलातुदृत्य दुष्टानिमान्लीकान्साधयती[s*]तुषङ्गजनिता
	सिंदि: परत्रा-
12	प्यसूत् ॥[७॥ [*]]
	⁴ तैस्तै दिंग्विजयावसानसमय संप्रेषितानां परै: सत्तारैरपनीय खेदमखिलं खां
	स्तां गतानां सुवम् [1*] क्रत्यं भावयतां
13	यदीयसुचितं पीत्या स्रपाणासभूत्
	सोलागढं द्वदय दिवश्युतवतां जातिसाराणामिव ॥[८॥*] श्रीपरव(ब)स्रस्त्र दुहितुः श्रितिपतिना रा-

रणणादेव्याः पाणिर्जग्रहे ग्रह्ममेधिना तेन ॥[८॥*] धृततनुरियं

साचादिचतिनु भरीरिषी । किमवनिपतेः कीर्त्तिमृन

ष्ट्रकूट⁰तिसकस्य।

14

¹ Two strokes in place of one.

² bymbol for H at the end of a pada is peculiar.

B Kielhorn has समेता.

⁴ This danda could be left out.

[ै] Kielhorn has तेर् तेर् which cannot be correct,

The way of writing the letter z is peculiar.

This danda could be left out.

15	र्त्तायवा ग्रहरवता[i*]
	दित विद्वधती गुच्याचा[रा*] वितर्कवती: प्रजा: प्रकृतिगुरुभिर्या गुदान्त
	द्गुणैरकरोद्धः ॥[१०॥ [‡]] साध्या प्र(प)तिव्रतासी सु-
16	क्तारतं समुद्रगुक्तिरिय ।
	श्रीदेवपालदेवम्पूमसवक्षं सुतमस्त ॥[११॥`] निर्मालो मनमि वाचि
	संग्रत: ।¹ कायकर्मानि(गि)च य: स्थित: ग्रुची[।*]
17	राज्यमाप निरुपञ्जविम्पतुर्वी(वीं)धिसत्व द्रव सीगतं पदम् ॥[१२॥*]
	भ्राम्यद्भिविं जयक्रमेण । विक्सिस्तामेव विक्धारवीमुहारः प्रवमानवा (वा)प्पपय
18	[मो] दृष्टाः पुनर्व(र्व)³ न्धवः[।*}
	कम्वी(स्वी)नेषु च यस्य वानियु[व*]भिर्धस्तान्यरानीनसी हेपामियितहारि-
	द्देषितरवा: कान्ताखिरप्रीणिता:⁴ ॥[१३॥*] य: पूर्व व(व)ज्ञि-
19	ना कतः क्षतयुरी चेनागमद्वार्गव-
	स्रोतायां प्रहतः प्रियप्रणयिना कार्णन यो द्वापरे । विच्छितः कलिन
20	थकिदिपि गते कालेन लोकान्तः
-0	रम्
	येन त्यागपथसा एव हि पुनर्दिसाष्ट्रसुन्सीसितः ॥[१४॥*] आ गङ्गागम-
21	मिहतातापत्र गूँन्यामासेतु(तोः) प्रियतदशास्यकेतुकी त्रीं [1*] उर्व्वीमा वक्ण-
	निनेतनाच सिन्धो- रा लच्छी कुलभवनाच यी वु(वु)भोज ॥[१५॥*]
	स खल भागीरघोषणवर्षभागामा वा वु(वु)भाज ॥[१५॥*]
22	स खलु भागीरयोपयप्रवर्त्तमाननानाविधनीवाटकसंपादितसेतुव(व)न्धनिहित[शै]- लशिखरश्रेणिविश्वमात् निरतिशयघनघनाघनघटा(टा)श्यामायमानवासरलक्यी- सभारव्ध(क्ष)संतरक्षत्रस्यप्रवर्णाल्याः
	स्मारम्भ (स)संतत्रजलदसमयसन्देशात्र उदीचीनानेक-
23	सर्गितिमात्राचीक प्राप्ति व
24	खरखरोत्खातधूलीधूसरितदिगन्तरालात् परमेश्वरसेवासमायाताशेषजंवू(वू)ही-
24	Dalia.
	पादातभरनमदवनैः श्रीमुहगिरिसमावासिश्रीमञ्जयस्कश्वावारात् परमसीगत- परमेश्वरपरमभटा(द्वा)रकम-

¹ This danda could well be omitted.

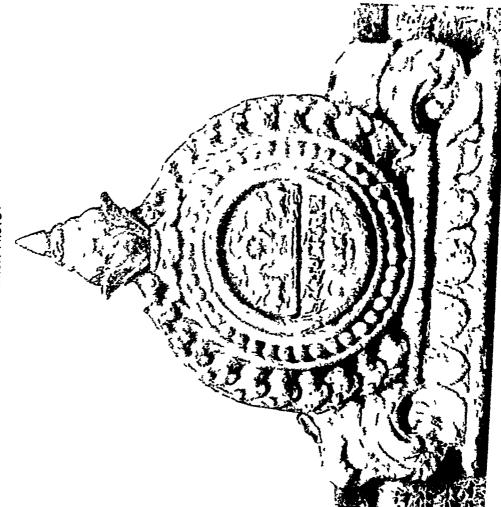
² This danda is unnecessary.

^{*} Kielhorn gave बान्यवा;

⁴ Kielhorn has चिर वीचिता:

s Kielhorn read होती; and remarked that the lithograph he used gave setu (or bhetu) Thin inscription sensores the possibility of bhetu. The readin must be होती:

Red द्वाद्दीको.



SEAL

(FROM PHOTO)

25	हाराजाधिराज्ञोधर्भेपालदेवपादानुध्यात:
	परमसीगतः परमेश्वरः परमभटा(हा)रको महाराजाधिराजः श्रोमान्देवपा
26	लदेव:
	क्तुश्रली । श्रोनगरभुक्ती राजग्रहविषयान्तःपाति श्रजपुरनयप्रतिव(व) ध-
	ख्तसम्व (ख) दाविष्ळित्रतत्वोपित । नन्दिवनाक । मणि -
27	वाटक । पिलिपिग्कानयप्रतिव(ब) नटिका । श्र-
	चलानयप्रतिव(ब) इ [स्ति]ग्राम । गयाविषयान्तःपातिक्रसुदस् ववीधी-
	प्रतिव(व) च पानाम-
28	कग्रामेषु । ससुपगताम्(न्) सर्व्वानेव राज-
	राणक । राजपुत्र । राजामात्य । सष्टाकात्तीकतिक । सष्टादण्डनायक ।
	महाप्रतीहार । सहा-
29	सामन्त ।
	महादी:साधराधनिक । सहाकुमारा[मा*]त्य [।*] प्रमातः । श्ररभङ्ग[।*
	राजस्थानी । योपरिक² । विषयपति [।*] दाशापराधिक । चौरीखर
30	णिक । दाण्डि- क [।*] दाग्डपामिक [।*] मील्किक [।*] [गी]लिमक। चेत्रपाल [।*] कोटपाल
	क [1] दागडपामन [1] मार्कना [1] [ना] रिना किनपाक [1] नाटपाल काण्डरच [1*] तदायुक्तन । निनियुक्तन । हस्त्यश्वीष्ट्रनीन(ब)लचाए-
31	त्वाः । तरायुक्तपाः । पानयुक्तपाः । इस्त्वश्वाङ्गाप(क)रायाष्ट्र-
O.L	तियोरवडवागोमि चिष्यिकत । दूतप्रै[ष] णिक । गमागमिक । भमित्व-
	रमाणक । तरिक । तरपतिक । भ्रोद्र(ड्र)-मालव-खग्र-कुलिक । कर्णी-
32	ट [ह्र]ण ।
	चाटभ[ट*]सेवकादीनन्धायाकीत्तितान् खपादपद्मोपजीविनः प्रतिवासि-
	नः व्रान्ह(ब्राह्म)णोत्तरान् सहत्तसक्षटुन्वि(म्बि)पुरोगमेदान्पृ-
33	क । चर्षाल-
	पर्यन्तान् समान्नापयति विदितमस्तु सवताम् ययोपरिलिखितस्तसम्ब(स्ब)- द्वाविच्छित्रतलोपेत नन्दिवनाकयाम् । मणिवाट-
34	न्नापा च्यत्रतालापता चान्यपापात्रास । सालपाट- . कग्राम ।
	नटिकाग्राम । इस्तिग्राम । पालासकग्रामाः स्त्रीमात्रणयूतिगोचरपर्यन्ताः
	सतलाः सोद्देशाः साममधृकाः सजलस्य-
35	ৰা:
	सोपरिकराः सदशापराधाः सचीरोद्धरणाः परिष्टतसर्व्वं(पीडाः) प्रचाटभटप्रवेग्रा श्रकिंचित्प्रया[ह्य]राजकुलीय-

¹ The symbol which has been read as \$\epi\$ may bo \$\epi\$

[?] The danda between of and an was meant to be put after a to separate the word from the following uparik.

36 समस्तप्रत्यायममेता भृमिच्छ-
द्रम्यायेनाचन्द्रार्वेचितिसमकात्तम् पूर्वेदत्तभुक्तभुज्यसानदेववृ(व्र)घ्रादेयविताः
भया
37 सातापित्रोरात्मन[च] पुख्ययमीभिट्डये ॥
सुव[र्ण्ण]द्वोपाधिपम[द्वा]राजत्र्योवा(वा)लपुत्रदेवेन दूतकमुखेन वयस्विज्ञा-
पिताः यथा मया
88 त्रीनालन्दायाम्बिहार: कारितस्त्व
भगवतो वु(वु)द्वभद्वारकस्य प्रज्ञापारमितादिमकन्तधर्मनित्रीस्थानस्थायार्थे तांद्रु(त्रि)-
89 कवी(वी घिसलगणस्थाष्टमहापुरुपपुद्रन्स्य
चातुर्दिशार्थभिचुसद्वस्य व(व) लिचरुसवचोवरिपण्डपातशयनासनग्लानप्रत्ययभे-
40 पन्यादार्थे भर्भ-
रत्नस्य चैखनाद्यर्थ विद्वारस्य च खण्डस्फुटितसमाधानार्थे शासनीकत्य
प्रतिपादित[ा*]: यतो भवद्भि: सर्विरेव
41 भूमेर्दानपाल $[-]$ गौरथादपहरणे
च महानरकपातादिभयाद्दानिसदमभ्यनुमोद्य पान्तनीयं प्रतिवासिभिरप्याज्ञ।य-
42 वग्विधेयै-
र्भूवा यथाकालं ससुचितभागभोगकरहिरखादिप्रत्यायोपनय: कार्य इति ॥
सम्बत् ६८ क(का) त्तिक दिने २१
Reverse.
43 तथाच धर्मानु य¹ न्सन ञ्चोका:
व(ब) हुभिर्वसुधा दत्ता राजभि:
44 सगरादिभि [। *]
यस्य यस्य यदा भूमिस्तस्य तस्य तदा फलम् ॥[१६॥]
4 5
खदत्ताम्परदत्ताम्वा [यो] ह[रे]त वसुन्धरा । स विष्टायां क्रसिभूत्वा पित्रिभः
46 सह पचते । [१७*॥ ।
दिष्टिक्षंस्ट[मा]िष खर्गे मोदित भूमिदः । ग्राविहा चानुसन्ता च
तान्येद
47 नरके वसेत् ॥[१८*॥]
पन्यद्तां दिनातिभ्यो यत्नाद्रच युधिष्ठर । सहीं महीस्रतां श्रेष्ठ दा-

¹ Kielborn gave भर्न तुत्रासनाकात suggested चर्मातुवासिन Perhops श्रसिन, is the reading intended,

48	नाच्छेयो नु पाननम् ॥[१८*॥]
	श्रसाक्तुलक्रमसुदारसुदा[इ]रिङ्गरन्यैष दानमिदमभ्यनुमीदनीयं । लच्मगस्त-
40	डित्सिलिसंबुद्द्(बुद्द्)द[चं]-
49	चलाया
	दानं फलं परयशःपरिपालनं च ॥[२०*॥] दति कमलदलाम्बु(म्बु)वि(बि)-
	न्दुचीचां त्रियमनुचिन्त्य मनुष्यजीवितं च [।*] सक्तसमि-
50	दसुदाहृतं च वु(बु)[ध्वा]
	न हि पुरूपैः परकीर्त्तयो विलोप्याः ॥[२१*॥] दिचणभुज इव राज्ञः
	परव(ब)लदलने सञ्चायनिरपेच: ।[।*]
51	दूत्यं स्त्रीव(व)जवर्मा विदधे धर्माधिकारे¹ऽिमन् ॥[२२*॥]
	श्रिक्षिन् धर्मारम्भे दूलं श्रीदेवपालदेवस्य । विदधे श्रीव(ब)लवर्मा
	व्याच्चतंत्रीसग्डलाधिपतिः ॥[२२*॥]
52	श्रामीदग्रेषनरपालविलीलमीलि-
	मालामणिद्युतिविवो(वो)धितपादपद्मः । ग्रैलेन्द्रवग्रतिलको यवभूमिपालः
	त्रीवीरवैरिमण्यना-
53	नुगताभिधानः ॥[२४*॥]
	इर्म्यस्थलेषु कुस्देषु स्रणालिनीषु प्रह्वेन्दुकुन्दतुन्दिनुषु पदन्दधाना । निःप्रेष-
	दिखुखनिरन्तरत्रव्य(व्य)गीतिः
54	मृत्तेंव यस्य भुवनानि जगाम कीर्त्तिः ॥[२५*]
	सूभक्षे भवति नृपा स्य यस्य कोपानि[िभी]नाः सह हृद्यैर्दिषां
_	त्रियोपि । वक्राणामि-
55	ष्ट चि परीपचातद्वा
	जायन्ते जगति स्व ³ ङ्गतिप्रकाराः ॥[२६*॥] तस्याभवनयपराक्रमशीलयाती
	राजेन्द्रमीलिप्रतदुर्षकिताह्नि-
56	युग्मः ।
	स्तुर्यु धिष्ठिरपराश्ररभीमसेनकर्णार्ज्जुनार्ज्जितयशाः समराग्रवीरः । [।२७*॥]
2- M4	डहूतम⁵म्ब(ख)रतलाघ(खु)धि सञ्चरन्त्या यत्त्रेनयावनिरजःप-
57	टल पदीत्यम् । कर्ण्णानिसेन करिणां शनकितिराण्णर्गण्डस्थलीमदनसैः शमयाम्व(म्ब)-
	all setting a differed settlement seat and all settlements settlements.

भूव ।[।२८*॥] श्रक्षण्यचमेवेदमभूज्ञवनमण्डलं

¹ The use of avagraha may be marked.

² This denda is unnecessary

⁸ Read May Symbol for sh is used for that of i,

or °धीर्:.

[&]quot; It is botter to read साहत्"

	26
58	कुलन्दैत्याधिपस्येव यद्यशोभिरनारतम् ॥[२८*]
	पौलोमोव सुराधिपस्य विदिता सङ्क्ययोनिरिव [प्रौति:] श्रीलस्तेव मन्मयरि-
~ 0	विभिज्यानु र र र र
59	राज्ञः सीमकुनान्वयस्य सहतः त्रीधर्मसेतोः सुता तस्याभूदवनीभुजोऽ ग्रमहिषी
	राज्ञः सामकुणान्वयस्य मध्यः नामानाः
	तारेव ताराश्वया ॥[२०*॥] माया- यामिव कामदेवविजयी शुद्धीदनस्थात्मजः
60	यामिव वासद्वापणया उपार
	स्कन्दो नन्दितदेवद्वन्दच्चटयः ग्रमोत्तमाथामिव । तस्यान्तस्य नरेन्द्रद्वन्दवि-
	नम्रत्यादारवि•
61	न्दासनः
02	सर्व्वर्विपतिगर्व्वग्वर्वणचणः यीवा(वा)लपुत्रोऽभवत् ॥[३१*॥] नालन्दागुण-
	हन्दलुव्ध(व्य)सनसा भन्नया च श्रीहोदनेर्वु(वुं)ध्वा शैलसरित्तरंगतरलां
40	हन्द्रशुष्याच्यामगरा पाना व राजार दुर्दु तस्त्रीमिमां स्रोभनाम् ।
62	
	· · ·
	क्विहार: स्रत: ॥[२२ [*] ॥] भत्तवा
63	तत्र समस्त्रमत्वविनतावैधव्यदीचागुर्ग
	क्तत्वा शासनमाहितादरतया यम्प्रार्थं दूतरसी। ग्रामान् पञ्च विपञ्चितीपरि-
	यद्योद्देगा-
64	निमानासनः
	पित्री[क्री]कहितोदयाय च ददी स्रीदेवपालं न्द्रपं ॥[३३*॥] याविसन्धीः
	प्रव(व)म्बः प्रयुत्तच्ररजटाचीभिताङ्गा च गङ्गा गुर्वी
65	धत्ते फगीन्द्रः प्रतिदिनमचली हेलया याषदुर्वीं ।
	यावक्सस्तोदयाद्री रवितुरगखुरोहृष्टचूडामणी स्तस्तावत्वलोत्तिरेषा प्रभव-
66	
QD	स् जनसम्बद्धाः सम्बद्धाः मृ द् ठ ॥]

TRANSLATION

Lines 1-25 are translated in the Mungir grant edited by Kielhorn in Indian Antiquary, Vol. XXI, pp 257-258

Ll 26-33 In the Érīnagara-bhukti, at the villages falling within the district (vishaya) of Rājagnha, namely, Nandivanāka and Manivātaka, which come within the territorial subdivision (naya) of Ajapura, together with the undivided lands connected therewith, Naţikā which comes within the subdivision (naya) of Pilipiņkā and Hastigrāma which comes within the

¹ Brib thos. letters are doubtful Sankaipayom, s.e. Kamadova has four wives, as stated in the Vishnudharmmitariya, III, 73, 21, insmely, Rati, Priti, Sakt and Madasakti Either of the two names Priti and Sakti will fit i., but the former mems preferable

³ May be read as बर्बासिती also

³ The use of the aragraha may be marked.

subdivision (naya) of Achalā and the village of Pālāmaka which comes under the subdivision (vīthī) of Kumudasūtra (or Kumudasūnu), that falls within the limits of the district (vishaya) of Garā—Dēvapāladēva, being in good health, issues commands to all the persons who have assembled here,—the Rājarānaka¹, the Rājaputraka, the Rājāmātya, the Mahākārttākritika, the Mahādandanāyaka, the Mahāpratīhāra, the Mahāsāmanta, the Mahādauhsādhasādhanika, the Mahākumārāmātya, the Pramāty, the Sarabhanga, the Rājasthānīya, the Uparika, the Vishayapati, the Dāsāparādhika, the Ohaurāddharanika, the Dāndika, the Dāndapāšika, the Saulkika, the Gaulmika, the Kshētrapāla, the Kōṭapāla, the Khandaraksha, the Tadāyuktaka the Viniyuktaha, the Hastyaśiāshtranaubalavyāpyitaha, the Kisāra-vaḍavā-gō-mahishydhikyita, the Dūtapraishanika, the Gamāgamika, the Abhitvaramānaka, the Tarika, the Tarapatika, the Öḍras (men fiom Orissa), the Mālavas, the Khasas, the Kulikas, the Karnnātas, the Hūṇas, the Ohāṭas (or village officers), the Bhaṭas, the servants and others, dependent on his lotusfeet, who are not named here, and the residents, the Brahmanōttaras, the village-elders, householders, the purōgas, the Mēdas, the Andhrakas down to the Ohānḍālas—

Li 33-87 Be it known to you that the above-mentioned villages, namely, the village of Nandivanāka, the village of Manivātaka, the village of Natikā, the village of Hasti, (or Hastigrāma) and the village of Pālāmaka, together with the undivided lands attached to them, unbroken up to their boundaries, grass and pasture-lands, with their grounds, places, mango and madhūka (Bassia Latifolia) trees, with their water and dry lands, uparikaras, dašāparādhas, chaurādharanas, free from all troubles, exempt from the entry of the chāṭas (village officers), and bhaṭas, with all taxes due to the king's family or court, with nothing of these to be recovered, according to the maxim of bhūmichchhidra, to last as long as the moon and the sun and the earth shall endure, excluding the gifts to gods, and the Brahmans, which were granted before and were enjoyed or are being enjoyed—

LI 37-42 are granted by us for the increase of the spritual ment and glory of my parents and of myself.—We being requested by the illustrious Mahārāja Bālaputradēva, the King of Suvarṇadvīpa through a messenger "I have caused to be built a monastery at Nālandā" granted by this edict toward the income for the blessed Lord Buddha, the abode of all the leading virtues like the pra jāāpāramitā, for the offerings, oblations, shelter, garments, alms beds, the requisites of the sick like medicines, etc., of the assembly of the venerable bhikshus of the four quarters (comprising) the Bodhisattvas well versed in the tantras, and the eight great hely personages (i e the ariya-puggatas), for writing the dharma-ratinas or Buddhist texts and for the upkeep and repair of the monastery (when) damaged; therefore, this grant should be approved and preserved by all of you out of regard for the ment of protecting gifts of land and because in the confiscation of the same there is a fear of falling into the great hell and the like. The residents also should be obedient to the order on hearing it and

¹ Many of these designations hardly admit of translation They all occur in several grants and have already been noticed by scholars So they are left untranslated here.

a सज्यतिनीचर is usually so translated and यूति is practically left untranslated.

Dr. Thomas is of opinion that the term Bödhisattva is used here to indicate the monks and would read tatraka in place of tantraka. He further thinks that Buddhabhaffarakasya depends on sthanasya. The term dharmanētrā cecurs in the Saddharmapundarīka, I, 10, 79; II, 102, XI, 5, 7 Burnouf translates it "la regle de la loi," to the rule of the Law" For ashia pudgalasya see Childers, Pāli Dictionary under ariyapuggalo and puggalo,

⁴ Dr. Kröm of Leiden also thinks that the message sent by Balaputra to Dēvapāla is only contained in the words "Śrī-Nālandāyām vihārah Kāritah"; for, if we assume that the message includes the whole passage as far as it (1 42) it is not clear who are meant by the words bhavadbith sarvairēva (1 40). These words cannot be applied to King Dēvapāls. Evidently they refer to that king's officials mentioned previously. There remarks appear to be justified but then we would require its after kāritas.

should bring to the donees at the proper time the due revenues such as bhāgabhōgakara, gold, etc." Samvat (year) 39, Kārttika, day 21.

Li 43-50. In pursuance thereof are the (following) verses (nos 16-21) announcing

duties (regarding grants)1.

- V. 22 The illustrious Balavarmman who was the right hand of the king, as it were, and who never depended on (others') help for crushing hostile forces, acted as messenger in this zeligious function
- V 23 In this religious undertaking Balavarmman, the illustrious ruler of the Vyäghratatī-mandala, acted as a messenger of the illustrious (Emperor) Dēvapēladēva
- V 24 There was a King of Yavabhūmi (or Java), who was the ornament of the Sailēndra dynasty, whose lotus-feet bloomed by the lustre of the jewels in the row of trembling diadems on the heads of all the princes, and whose name was conformable to the illustrious tormentor of brave foes (vīra-vairi-mathana)
- V 25 His fame, incarnate, as it were, by setting its foot on the regions of (white) palaces, in white water-lilies, in lotus plants, conches, moon, jasmine and snow and, being incessantly sung in all the quarters, pervaded the whole universe
- V 26 At the time when that king frowned in anger, the fortunes of the enemies also broke down simultaneously with their hearts. Indeed the crooked ones in the world have got ways of moving which are very ingenious in striking others?
- V 27 He had a son, who possessed prudence, prowess, and good conduct, whose two feet fondled too much with hundreds of diadems of mighty kings (bowing down). He was the foremost warrior in battle-fields and his fame was equal to that earned by Yudhisthira, Parāśara, Bhīmasēna, Karnņa and Arjuna
- V 28. The multitude of the dust of the earth, raised by the feet of his army, moving in the field of battle, was first blown up to the sky by the wind, produced by the (moving) ears of the elephants, and, then slowly settled down on the earth (again) by the ichor, poured forth from the cheeks of the elephants
- V 29. By the continuous existence of whose fame the world was altogether without the dark fortught, just like the family of the lord of the daity as (demons) was without the partisanship of Krishna 3.
- V. 30 As Paulömī was known to be (the wife of) the lord of the Suras, (i.e. Indra) Ratif the wife of the mind-born (Cupid), the daughter of the mountain (Pārvatī), of the enemy of Cupid (i.e. Šīva) and Lakshmī of the enemy of Mura (i.e. Vishnu) so Tārā was the queen consort of that king, and was the daughter of the great ruler Dharmasētu 5 of the lunar race and resembled Tārā (the Buddhist goddess of this name) herself
- V 31 As the son of Suddhödana, (i e the Buddha) the conqueror of Kāmadēva, was born of Māyā and Skanda, who delighted the heart of the host of gods, was born of Umā by Śiva, so was born of her by that king, the illustrious Bālaputra, who was expert in crushing the pride

² Here come six imprecatory and benedictory stanzas, too well-known to be translated. The stanza सर्वानिवान् आविन, पारिवेन्द्रान् which is given in the Mungir grant is here left out

The eyebrows become crooked in frowning and the poet by way of arthanturu-nyasa draws a general inference from it

The exact word which certainly has only two letters is not distinct. It may be either Priti or Sakti as noted above, f n., p. 324. That Rati is meant is absolutely clear from the context.

This name can be read as Varmasētu also,

of all the rulers of the world, and before whose foot-stool (the seat where his lotus-feet rested) the groups of princes bowed

- V 32. With the mind attracted by the manifold excellences of Nālandā and through devotion to the son of Suddhödana (the Buddha) and having realised that riches was fickle like the waves of a mountain stream, he whose fame was like that of Sanghārthamitral, built there (at Nālandā) a monastery which was the abode of the assembly of monks of various good qualities and was white with the series of stuccoed and lofty dwellings.
- V 33 Having requested, King Dēvapāladēva, who was the preceptor for initiating into widowhood the wives of all the enemies, through envoys, very respectfully and out of devotion and issuing a charter, (he) granted these five villages, whose purpose has been noticed above for the welfare of himself, his parents and the world
- V. 34. As long as there is the continuance of the ocean, or the Ganges has her limbs (the currents of water) agitated by the extensive plaited hair of Hara (Siva), as long as the immovable king of snakes (Sēsha) lightly bears the heavy and extensive earth every day and as long as the (Udaya) Eastern and (Asta) Western mountains have their crest jewels scratched by the hoofs of the horses of the Sun so long may this mentorious act, setting up virtues over the world, endure

No 18-MATTEPAD PLATES OF DAMODARAVARMAN.

By PROFESSOR E HULTZSCH, PH.D., HALLE (SAALE)

This inscription is engraved on five very thin copper-plates, which were found in the village of Mattepād in the Ongole Tāluk of the Gunţūr District and forwarded to Rao Bahadur H Krishna Sastri by the Tahsildar of Nellore—The plates measure 6½ inches in breadth and 1½ inches in height—There are eight inscribed faces, the outer faces of the first and last plates having been left blank—Each inscribed face bears only two lines of writing—The margins of the plates are not raised into rims, but the writing is in fair preservation—The five copperplates are strung on a ring of the same metal, passing through a hole of about ½ in diameter on the left side of the writing—The two ends of the ring, which is about 2½ in diameter, are fixed in the base of an oval seal, which is much worn; it seems to bear, in relief, the figure of a seated bull, facing the proper right. The weight of the plates, with ring and seal, is 30½ tolas

The alphabet is of an early Southern type. The Jihvāmūliya occurs in line 7, and the Upadhmāniya in line 16, final forms of t and m in lines 1, 7, and 15, 16 (twice), respectively. As in the case of the plates of Chārudēvi (above, Vol VIII, No. 12) and of Vijaya-Dēvavarman (Vol IX, No 7), the eight inscribed faces are numbered consecutively, like the pages of a modern book, with the numerical symbols 2, [3], 4, 5, 6, 7, 8 on the left margin; the first plate seems to bear, just as that of Dēvavarman, the sacred syllable ōm in the place of the figure 1. The symbol 2 occurs also in the date (1.14), and the symbol 1 repeatedly in lines 8-13

The language of the plates is Sanskrit mixed with Prākrit. Lines 1-14 are in prose, and the two last lines in verse. In the Sanskrit portion consonants following r are doubled, with the exception of t in kartum= and of h in arhanti (1 6). The Sandhi is neglected after purāt (1 1), tasya and sagōtrasya (1. 2), grāmāyakāh (1 4), grāmah (1 5), and bhāmīh (1 15)

¹ This might possibly mean that his wealth befriended the cause of the Sangha,

[?] See ab ve, Vol IX, p. 57.

In lines 8-13 the proper names of the donces and most of the names of their götras! are given in Präkrit, and in line 14 the Pråkrit form -samiarhehharam occurs. The only other declensional forms are the nominative singular amso (for which we would have expected amso) and the genitive singular -ajjossa (= -äryasya in Sanskrit) in lines 8-13. The vowel au has become o in Kondinna (= Kaundinya, 11 8-11) Sinskrit p and b have been changed to v in Kassava (= Kāšvapa, 1 11 f) and Saiarajja (= Sabarārya, 1 10) Consonant groups are assimilated, but srī is represented by siri in Sirija (1 9). This name, as well as Nandijja' (= Nandyārya, 11 8, 13), Aggija (= Agnyārya, 11 9, 11), Agasti (= Agastya, 1 13), and Venujja (for which we would have expected Venhujja' = Viehniārya, 1 12), are instances of Samprasārana (i = ya, and u = va).

The inscription records that, in the 2nd year of his reign (1 14), the Mahārāja Dāmodaravarman (1 3) granted the village of Kangura to a number of Brahmanas He was a worshipper of 'the truly and perfectly Enlightened one' (Samyal-sambuddha, 1 1), ie of the At the same time he boasts of having performed certain Brahmanical rites, viz. Gōsahasra and Hiranyagarbha (1 2 f) These are the names of the second and fifth of the sixteen so-called 'great gifts' (mahādāna) of the Puranas A similar feat is ascribed to king Attivarman in another copper-plate grant from the Guntur District, where I translate the epithet apramēya-Hiranyagarbha-prasaiēnas by 'who is a producer of (i.e who has performed) innumerable Hiranyagarbhas' That this Attivarman (whose name seems to be a Prakritic or Dravidian form of Hashvarman) belonged to the same dynasty as Damodaravarman, is evident from the fact that his family is stated to be 'descended from the lineage of the great sage Ananda' (ibid., text 1 1) while Damodaravarman claims to have belonged to the gotra of Ananda (below, text 1 2) Moreover, Dāmödaravarman resided at a city called Kandarapura (below, text 1, 1), which must have received its name from that prince Kandara who is mentioned as an ancestor of Attivarman The characters of the copper-plate grant of this king are decidedly more developed than those of the subjoined grant, which, besides, is partially in Präkrit, while the former is all in Sanskrit. Consequently, Damodaravarman must have been one of the predecessors of Attivarman

When editing the Görantla plates of Attivarman, my late lamented friend Fleet believed this king to have been a Pallava,7—chiefly because he interpreted the epithet apramëya-Hiranyagarbha-prasavëna by 'who is of the posterity of the inscrutable (god) Hiranyagarbha.' As I have shown above, this rendering is inadmissible in the light of the corresponding epithet used in the fresh plates, and Fleet himself had since withdrawn his original opinion in his Dynasties of the Kanarese Districts, second edition, p. 334 Henceforth Kandara, Dāmödaravarman, and Attivarman (Hashvarman) may be designated as 'kings of the family of Ānanda.'

The two localities mentioned in the subjoined inscription—Kandarapura (1 1) and Kangūra (1 4 f)—I am unable to identify But the first of the two villages referred to in the grant of Attivarman—Tānrikonra⁸—is probably identical with Tādikonds, 10 miles north of Guntūr 2 and south of the Krishnā river, and the second village—Āntukkūra¹⁰—with Gani-Ātukūru, west

¹ In line 18 the names of the gotras are in Sanskrit

² Cf Nandin and Gonardija, above, Vol. I, p 6, text 1.21, and Vol. VI, p 87, text 1.9

Cf Rudarennhuja, above, Vol. VI, p. 317, text 1. 16

[,] See Hēmādn's Dānakhanda, chapter E, and cf also Ep Ind, Vol. I, p 368, verse 18 and note 58 Ind. Ant., Vol IX, p 102, text 1.8

Loc. cit., text 1. 2. These coincidences were first pointed out in the Madras Epigraphical Report for 1920,

^{*} See Ind. As., Vol IX, p 102.

* See Mr B. Sewell's Insts. Vol. I. p 78.

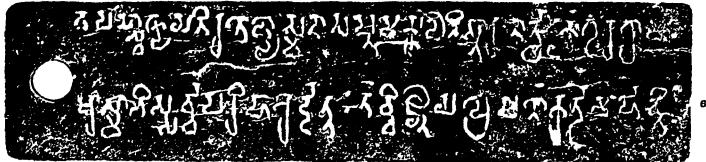
¹⁰ Ind. Ant, Vol IX, p 103, text 1.8.



u a



116

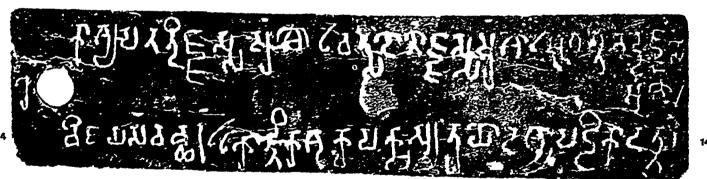


111 a



iv a

न्यान्य स्थान्य
iv b



तररेग्रहरेश कार्यरेश्वीरिक्षणप्रभाग के क्षेत्रहरूत है। क्षेत्रवितेल हो क्षेत्रिकिक क्षेत्रक क्षेत्रक क्षेत्रक क्षेत्रक क्षेत्रक क्षेत्रक क्षेत्रक क्षेत्रक क्षेत्रक क

16

of Bezvāda 1 Görantla, where the plates of Attivarman were obtained,2 is 4 miles north of Gunţūr 3 Finally. Venkayya's Report for 1900, pp 5, 35, notes a much defaced Sanskrit inscription mentioning the daughter of king Kandara of the Ānanda gōtra, at Chēzarla, west of Gunţūr.

TEXT 4

First Plate: Second Side

- 1 विजयकोटरपुरस्तु [स]गवतः सन्यक्संबुदस्य पादानुष्या-
- 2 तस्य षा[न]न्दसगीनस्य प्य[वन्ध्य]गोसह[सान]कहिरख-

Second Plate, First Side

- 3 गर्कोद्भवोद्भवस्य सहाराजश्रीदामोदग्वर्भाणो वचनेन
- 4 कंगूरयामेयका(:) वक्तव्या: [1*] एभ्धी ब्राह्मणे[भ्यो] नानागीचचरण-

Second Plate, Second Side

- 5 तप्रस्ताध्यायनिर्विभ्योस्मदासप्तसत्त्त्त्तिन्द्वार्ण[ा[#]]त्र्यं नंगृर्णासः
- 6 श्रसाभिस्रर्व्यपरिचारैदेत: [1] तंव्यिश्वाय प्रेषि]णं कर्तुमर्छन्ति [1]

Third Plate, First Side.

- 7 एषां ब्राम्मणानां गोचनासविभागादंश्यविभागह्नियते [1*] पूर्वेन्तावत्
- 8 कोण्डिन बह्जास धंधी १ कोण्डिम नन्दिज्ञ संभी १ कोण्डिन खन्द ज्यस इंग्री

Third Plate; Second Side.

- 9 की रिष्ड वस्त्र व्यापा १ की रिष्ड वस्त्र विष्ड वस्त्र विष्ड वस्त्र विष्ड वस्त्र विष्ड वस्त्र विष्ड वस्त्र विष्ड वस्त्र विष्ट वस्त्र विष्ट वस्त्र विष्ट वस्त्र स्त्र वस्त्र ्त्र वस्त वस्त्र वस्त्र वस्त्र वस्त्र वस्त्र वस्त्र वस्त्र वस्त्र वस्त्र वस्त्र वस्त्र वस्त्र
- 10 पुन: कोण्डियभवकाषा संघो १ कीण्डियखन्दकासा संघो १ कीण्डिय- सवरकासा सं[यो]

Fourth Plate ; First Side.

- 11 क्षीण्डिसमिकास यंगी १ क्षीण्डिमवीरकास यंगी १ कसावदामकास [यंगी]
- 12 कस्प्रविज्ञसारकार्य श्रंथो १ कस्प्रविष्णकास्य श्रंथो १ कस्प्र[वदे]वक्नस्य श्रंथो

¹ See above, Vol. VIII, p 10.

² Ind Ant, Vol IX, p 102.

Mr Sowell's Leete, Vol. I, p. 74.

⁴ From ink-impressions supplied by Rao Bahadur H. Krishna Sastri.

Bead तकिशाय.

Fourth Plate, Second Side

- काश्यपनन्दिनस्य श्रमो १ वत्सदोणध्नसः श्रमो श्रागस्तिभद्दक्तस 13
- वार्त्तिवाशुक्तपचस्य चयोदय्यां पहिका दत्ता विजयसवच्छर २ 14 Fifth Plate, First Side
- यङ्कियानुपानिता [1*] यस्य यस्य यदा भूमि:3 टत्ता फलम्॥
- वा यो इरेन् वसुन्धराम् [ा] गवां ^३गतसइसस्य परदत्तां 16 इन्त्×ि पिवति दुष्कृतम् ॥

TRANSLATION

(Line 1) From Kandarapura, (the city) of victory, the villagers of Kangura have to be addressed (as follows) by the word of the glorious Mahārāja Dāmōdaravarman, who meditates on the feet of the blessed Samyak-sambuddha; who belongs to the gotra of Ananda; (and) who is the origin of the production (i.e. who has caused the performance) of many Hiranyagarbhas4 and of (gifts of) thousands of pregnant cows

(L 4.) 'For the sake of Our salvation as far as the seventh generation, the village of Kengura has been given by Us, with all exemptions, to the following Brahmanas of various gotras and charanas, and practising austerities and recital of their sacred texts Knowing this

(the villagers) should render service (to them).

(L 7) The allotment of shares is (now) made to these Brahmanas, with specification of (their) gotras and names First then, to the Kondinna Ruddajja (Rudrārya) 1 share; to the Kondinna Nandijia (Nandyarya) 1 share, to the Kondinna Khandajia (Skandarya) (1) share; to the Kondinna Bhavajja (Bhavārya) 1 share, to the Kondinna Aggijja (Agnyārya) 1 share; to the Kondinna Sirija (Śryārya) (1) share, again to the Kondinna Bhavajja I share, to the Konduna Khandajja 1 share, to the Konduna Savarajja (Sabararya) (1) share; to the Konduna Aggija 1 share, to the Kondinna Virajja (Virarya) 1 share, to the Kassava Damajja (Dāmārya) (1) share, to the Kassava Kumārajja (Kumārārya) 1 share, to the Kassava Veņujia (Vishnyarya) 1 share; to the Kassava Devalja (Dôvārya) (1) share, to the Kāsyapa Nandija 1 share, to the Vatsa Donajja (Dronārya) 1 share, to the Agasti Bhaddajja (Bhadrārya) 1 share.

(L 14) (In) the year of victory 2, on the thirteenth (tithi) of the bright fortnight

of Karttika, (this) set of plates has been given (to the donees)

[Line 15 f contain two of the customary flokas]

No 19-URLAM PLATES OF HASTIVARMAN, THE YEAR 80.

BY PROFESSOR E HULTZSCH, PH D , HALLE (SAALE)

This is a set of three copper-plates, measuring 71 inches in breadth and 21 inches in The outer face of the first plate has been left blank, while the second and third plates height

[ा] चंद्री १ is entered below the line.

^{*} Read sign

² Read भूमिक°.

⁴ See the introductory remarks. * paffikā is used in the same sense in other copper-plate grants See above, Vol. I, p. 7, text 1. 51; Vol. VI, p 14 text 1. 18, p 88, text 1. 28, p 818, text 1. 40, Vol. VIII, p. 240, text 1. 40,

tion of a Ganga grant in Vol XIII, p 216 As I have shown in Vol VII, p 107, note 4: akhaiah, the person to whom the engraving of copper-plate grants is entrusted, means 'a goldsmith," and must not be confounded with al shapatalika, 'a keeper of records '

Of the localities mentioned in this inscription, Kalinginagara (1 1) is the precent Mukhalingam,2 and Uramalla, where the donce resided (1 12), is Urlam' where the copperplates were obtained. In the absence of local maps, I am unable to identify the village granted, Hondevaka (1 8), and another village, Hattaravanna, which seems to be referred to in the description of the boundaries of the former (1 16) The district of Kroshtuka-vartani (1 8) occurs also in the Chicacole plates of Dövendravarman 4

First Plate , Second Side

- श्रीं खिस्त [1⁴] चर्व्वत्तेसुखरमणीयादिजयकतिद्वनगरायाकलभुवननिर्माणीक-
- स्वधारस अगवतो 'गोकर्णुसासिनसरणकमस्युगसप्रणामादपगत-
- किलकारी विनयनयसम्पदासाधारः खासिधारापरिस्प्रन्दाधिग-
- 4 तस्कालकालिङ्गाधिराज्यसतस्विधतर्छभेखनावनितस्वप्रवि-
- यनेवासमरसंघीभजनितज्यशब्दो गाहा-5 ततासचयशा(:)
- मजञ्जू जपतिष्ठः प्रतापातिष्ययानामितसमस्तसामन्तचृडा-6

Second Plate . First Side

- मणिप्रभामखरीपुखरिखतचरणो मातापितृपादातुद्धातः परम-
- साइम्बर: त्रीसधारानी धस्तिवसी (1) क्रोष्टुकवर्त्तन्यां छोण्डेवनयामे स-
- र्वं समवेतान्तुदुस्थिनस्यसातापयति [।"] विदितमस्त् वो ययान्तासि[:]"
- चित्राग्यामेग्रहारिदासकाद्यारक्रीत्वा हाईहलस्य भूग्छेदीकत्याचन्द्रार्क-10
- 11 प्रतिष्ठमयद्वारकृत्वा सर्व्यकरै: परिद्वत्य सातापित्रोरात्मनय पुष्पासिद्वद्ये व
- उरासहिनवासिने वलसगोचाय वाजसनेयसग्रह्मचारिणे ज[य]-12

Second Plate; Second Side.

- 18 शर्मणे कार्तिकालणाष्ट्रम्यासुदकपूर्व संप्रता [।*] तहिद्वा समूमिमनुपाल-
- $oldsymbol{14}$ यतां न निनित्यरिवाधा 11 दार्व्यति । सीमान्तिप्रानि चात्र [$oldsymbol{1^*}$] पृष्वेष वस्त्रीकस्ततः

¹ Cf. ' agasálı, agasálavádu or agasálevádu, a goldsmíth,' in Brown's Telugu-English Dictionary. 2 See above, Vol. IV, p 187 ff

This identification was suggested in the Madras Epigraphical Report for 1920, p 98.

⁴ Above, Vol. III, p 131

From ink-impressions supplied by Rao Bahadur H Krishna Spatra, s Expressed by a symbol,

⁷ Bead बीखपराँ०

Bead °संपीस°. to Read of Sea.

^{*} Bead यथाकाभिरिह्म"

¹¹ Read outel.

• स्वीत्वान्त्रम् स्वान्त्रम् म्यम्यम्यम्यम्यम्वन्यम्यम्यम्यम्यम्यम्यम्यम्वन्त्रम् स्वान्त्रम्यम्वन्त

तिया स्थान

" निर्मा स्थान स्

11 a.

10

tit a

111 b



אכ

- 15 चेचपाली ततो घोषणवाष्या[:*] पश्चिमपासी तत: प्रनरिप चेच-पाली । * रे
- दिचियान इत्तरवस्रीसान्तिका एवं । भे पश्चिमन खेचपाली तती वल्मीकः
- ततः क्रत्मा पाषाणपिद्धः [।*] उत्तरेणापि चेत्रपासी तती बब्बीबः प्रनर्वेत्सीकः²
- 18 तती पूर्ववस्तीवसनुप्राप्तित । भविष्यद्रानिभक्षायन्दानधर्मीनुपालनीय: [1*]

Third Plate . First Side.

- तथा च व्यासगीताः [1*] बहुभिर्व्वस्था दत्ता बहुभिञ्चानुपालिता [1*] 19 यस्य यस्य
- यदा भूमिन्तस्य तस्य तदा फलं [॥ १ क् स्वदत्ताम्परदत्तां वा युधिष्ठिर [1*] सर्ही
- महिमतां श्रेष्ठ दानाच्छ्रेयोनुपालनं [॥ २*] षष्टिं वर्षेसप्रसाणि सोदते दिवि
- भूमिद: [:*] जाचेप्ता चातुमन्ता च तान्धेव नरवे वसेदिति । [२*] प्रवर्हमानविजय-
- राज्यसंवत्सरा ष्रशीतिः ५० वार्त्तिवदिन ५ ॥ प्रदं विनयचन्द्रेण भात-23
- चन्द्रस्य सूतुना [।*] भासनं राजसिङ्क्ष्य सिखितं खसुखाञ्चया ॥ [४*] 24

Third Plate , Second Side.

- मण्डलाग्राग्रनिष्येष्टनिष्यष्टारातिसङ्तेः 25
- श्रीमतोप्रतिघात्रस्य रणभीतस्य शासनम् ॥ 26

TRANSLATION.

(Inne 1.) Om. Hail | From Kalinganagara, (the city) of victory. which is pleasant (on account of the simultaneous presence) of the comforts of all seasons, the glorious Maharana Hastiyarman, a fervent worshipper of Mahesvara, who meditates on the feet of (his) mother (others), at the village of Hondevaka in (the district of) Kröshtuka-vartani.

(L 9.) Be it known to you that We have purchased two and a half ploughs (hala) of land in this village from the Agrahankas, have constituted (this land a separate) section.

¹ Resd सीसान्तिकेव.

^{*} Read जिल्ला.

Bead मही

र Read ⁰संस्ते:

The epithets omitted here will be found translated above, Yol III, p 120.

i.e. the residents of the agrahara.

² Read वधीकवतः

[•] Rend कसात..

Bead सिंहस्य

have made (it) an agrahāra which is to last as long as the moon and the sun, have exempted (it) from all taxes, and that, for the sake of the increase of the religious merit of (Our) mother and father and of Ourself, on the eighth (tithi) of the dark (fortnight) of Kārttika, with libations of water, We have given it to Jayasarman, who resides at Urāmalle, belongs to the Vatsa gōtra, (and) studies the Vājasanēya (śākhā). Knowing this, nobody should cause obstruction to (the new owners) while they are preserving their own land."

- (L 14) And the marks of the boundaries of this (land are) In the east, an anthill; then the bank ($p\bar{a}l\bar{i}$) of a field, then the western bank of the Ghōshana tank, and then again the bank of a field. In the south, only the boundary of Hattaravanna. In the west, the bank of a field, then an anthill; then an artificial row of stones. And in the north, the bank of a field, then an anthill; again an anthill; then (the boundary) reaches the anthill in the east.
- (L 18) And future kings should preserve this meritorious gift. There are also the following (verses) sing by Vyssa.

[Lines 19-22 contain three of the customary Slokas]

- (L 22) Eighty—(in figures) 80—years of the reign of increasing victory, the day 8 of Kärttika
- (Verse 4) At the command of his (the king's) own mouth, this edict of Rajasimha has been written by Vinayachandra, son of Bhanuchandra
- (V 5) (This is) an edict of the glorious Banabhita, whose orders are irresistible, (and) who has crushed the collection of (his) enemies by the strokes of the point of (his) scimitar.

No 20-IPUR PLATES OF GOVINDAVARMAN'S SON MADHAVAVARMAN.

By Professor E Hultzsch, Ph D, Halle (Saale)

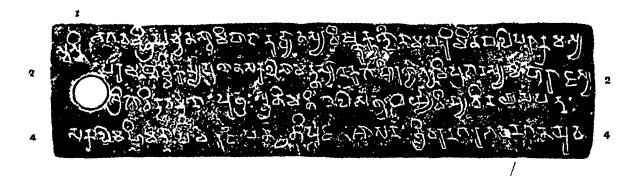
This is a set of three thin copper-plates in the possession of Brindavanam Gopalacharlu at the village of Ipūr in the Tenāli Tāluk of the Gartūr District, which was brought to the notice of Rao Bahadur H Krishna Sastri by Mr A Rangasvami Sarasvati. The plates measure 6½ inches in breadth and 1½ inches in height. The outer faces of the first and last plates have been left blank, while the middle one bears writing on both sides. The margins of the plates are not raised into rims, but the writing is in good preservation. The plates are strong on a copper ring, which is 3° in diameter and is passed through a hole on the left side of the writing. The two ends of the ring are secured in the base of a circular seal, which measures 1½ in diameter and is somewhat worn. It is divided by a cross-line into two sections. The lower section bears, in relief, the legend Angusta in two lines. Above the line seems to be a figure of Lakshmi or a Svastika on a pedestal, flanked by two lamp-stands and surmounted by the sun (?) and the crescent of the moon. The weight of the plates, with ring and scal, 1-20 tolas.

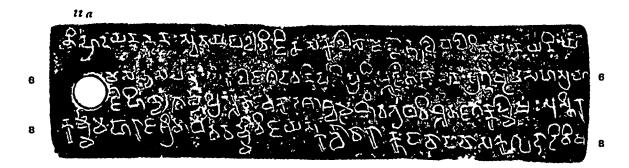
The alphabet is of an earlier southern type than that of the two other published grants of the Vishaukundin family. The secondary forms of a and a are not always clearly distin-

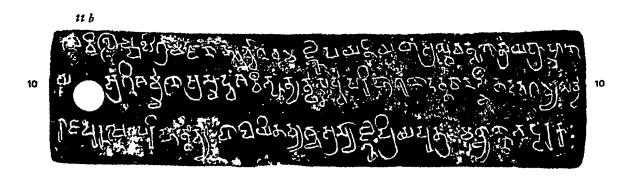
^{*}Cf it e corresponding port on of the Achyutapuram plates, above, Vol. III, p 129

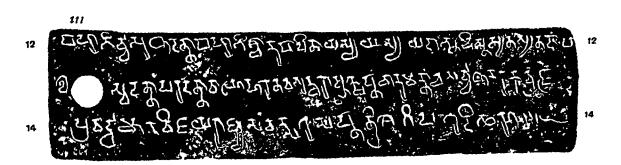
^{*}There are the Parest all am plates of Indravarman, above, Vol. XII. p. 133, and the Chikkulla plate Vikra rendrevarman II, Vol. IV, p. 133

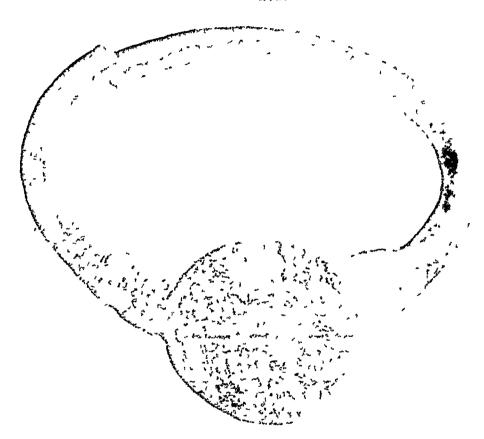
Ipur Plates of Govindavarman's Son Madhavavarman.











FULL SIZE

guished, in chindinām= (1.1) i looks like \bar{i} , and in bhagarach-Chhrīpaiviata- (11), $\bar{s}_1\bar{i}$ -Göiindac (13), ind -mahī- (1.4), \bar{i} looks like i, t is distinguished from n by a loop on the left but in -janīn= (19) the second n has a loop, and in -jagat-halmashah (17) and -samiatsarē (114) the t has no loop. Final forms of m and t occur in -artitham (1.10), is a sundharām and irajēt (113). The numerical symbols 5, 7, and 10 are used in the date (114).

The language is Sanskrit prose (with two verses quoted in 1 12 f), but the abbreviation gi (1 14) presupposes the Prākrit word gimha (= grishma in Sansk t) The incorrect form saptātrisē, (for saptatrimšē, 1 14) seems also to be due to $P_1ā$ 'crit inhuence Palatal \bar{n} is expressed by lingual n in Manchyanna- (1 11) Consonants are doubled after r throughout, and gimha before gimha in gimha and gimha is expressed by insulating gimha in gimha and gimha in gimha in gimha is expressed by lingual gimha in gimha

The inscription records the grant of the village of Vilembali in the Guddādī-vishaya (18f) to the Biāhmana Agniśaiman. The grantoi was the Mahāiāja Mādhavavarman (18), son of the Mahāiāja Gōvindavarman (13), who was a woishipper of the temple at Śrīpervati and belonged to the family of the Vishnukundins (11) Mādhavavarman issued his order to the villagers from his camp at Kudāvāda (18) and seems to have resided at Trivaranagara (14) The executor (ājāā) of the grant was (the king's) 'deai son,' Miñchyanna-bhattārāka (11) Its date was the 15th day of the 7th fortnight of the hot season in the thirty-seventh year of the leign (114)

In consideration of the comparatively early type of the alphabet of this inscription, I feet tempted to identify Mādhavavarman with a king of the same name, who is known to have been the grandfather of the grantor of the Rāmatīrtham plates, and the great-grandfather of the grantor of the Chikkulla plates ¹ For easy reference, I subjoin a tabular statement

Ipūr plates	Rāmatīrtham plates.	Chikkulla plates		
Gövindavarman 	Mādhavavai man	Mādhavavarman		
	Vikiamëndra 	Vikiamendiavarman I		
	Indravaiman (yeai 27)	lndrabhaţţārakavarman		
		Vikiamēndiavarman II (year 10)		

Of the localities mentioned in this inscription, Śrīparvata (1 1) is perhaps identical with Śrīfailam in the Kainūl District Whether the Guddādi-vishaya (1 8 f) has anything to do with the Guddavādi-vishaya to which Diākshārāma and Chellūr in the Godāvarī District belonged, I am unable to say, nor can I identify Vilembali (1 9), Kudavāda (1 8), and Trivaranagara (1 4), which can hardly be identical with the distant Tripuii (Tewar)

¹ See my 1 emarks above, Vol. XII, p 133, and of the Madras Emgraphical Report for 1920, p 99.

² See above, Vol IV, p 195

B See above, Vol. IV, p. 83, Ind Ant, Vol XIV, p 53, text 1 77, Vol XIX, p 424

TEXT 1

First Plate, Second Side

- 1 स्वस्ति [1*] भगवच्छोपर्व्वतस्त्रामिपादानुद्धातस्य विष्णुजुण्डिनामपरिमितवन-पराक्रमस्य
- परमधार्मिकस्य प्रणतसक्तसामन्तस्यानेकगी चिरण्यभूसिप्रदानस्य सचाराजस्य
- श्रोगीविन्दवर्भाणः पुन: स्मृतिसतिवससत्वधैयोवोर्व्यवनयसंपद्म:
- 4 समलम्हीमण्ड[ल]म[नु]जपित[प्र]तिपूिनत्यासनः निवदनगरभवनगतयुव-

Second Plate, First Side

- तिच्चदयनन्दनः 'स्व[न]यवलंविजितसक्तलसामन्तातुलवलविगयनयनिय-
- सस्त्वनपनः स्वन्तनगद्वनिपतिप्रतिपृजितशासनः अग्निष्टोससङ्स्या-6
- जो हि[र*]खगर्अंप्रस्तः" एकादशाश्वसेधावसृथविधृतवगत्कसायः
- कर्मा[ा] सद्दाराजश्रीसाधववमा विजयस्कन्धावारा[त्*] क्रडावाडवासमा-° गुद्दादिविष-

Second Plate, Second Side.

- विलेम्बलिग्रामजनान्मर्व्वानेवस[ा*]ज्ञापयति यथा¹⁰ श्रस्यै वसगोत्राय व्राह्मणा-
- य11 त्रिनिम्मीणे असादंशिवभूत्यत्रीम्12 सर्विपिरिहारेण 10 दत्तवानिका तदवगन्य सर्व-
- रानपुरुषैः परिहर्त्तेव्यः पानियतव्यस् [।*] त्रस्याज्ञा 11 प्रियपुत्र:¹³ सण्चण्ण-सहारकः [|*]

Third Plate, First Side.

12 बहुभिर्व्वसुधा दत्ता बहुभियानुपालिता $[\mathfrak{l}^*]$ यस्य यस्य यदा भूमिस्तस्य तस्य तदा पा-

¹ From ank-impressions supplied by Rao Bahadur H. Krishna Sastri.

¹ Perhaps स्तमुजवन्त् is intended. Read "सामनी इतुष्व" Bend oसलसपत्र'.

⁷ Read °प्रस्तिरेकादशा°

Bend वासमाङ्ग्हारि

¹¹ Bead ब्राह्मचायाप्रिश्यंचीऽस्व

[&]quot; Read ^eपुत्री सञ्चारण्".

⁸ Read श्रासनिस्त्रिवर°.

E Rend व्यासनी विन्.

⁸ Read सुस्थिर्°.

¹⁰ Read सदाओ.

¹³ Read ontal.

- 18 स[म्॥⁶] खदत्तां परदत्तां वा यो, एरेत वसुन्धरास् [।*] भाचेता भानुसन्ता च सर्वधा नरक नित् [॥⁶]
- 14 प्रवर्षभागविवायराज्यसंवत्सरे सप्तानियी वि प ७ दि १० ५ ॥ TRANSLATION.
- (Line 1) Hail! The son of the glorious Mahārāja Gōvindavarman, who meditated on the feet of the holy lord of Śrīparvata; (who belonged to the family) of the Vishnukundins; whose power and valour were immeasurable, who was most religious, to whom all vassals were bowing, (and) who (performed) many gifts of cows, gold, and land;
- (L 3) the glorious Mahārāja Mādhavavarman, who is endowed with (knowledge of) the law, intelligence, power, honesty, firmness, valour, and modesty, whose edicts are worshipped by all rulers of men on the circle of the earth, who delights the hearts of the young women standing on (the top of) the palaces of Trivaranagara; who has subdued all vassals by the power of his own arm, who is endowed with unequalled power, modesty, policy, self-restraint, and honesty, whose edicts are worshipped by the rulers of the earth in the whole world, who has performed thousands of Agnishtōma sacrifices, who is a producer of (i.e. who has performed Hiranyagarbhas 4, who has iemoved the stains of the world by bathing at the end of eleven Aśvamēdhas 5, (and) whose religious rites are evenlasting,
- (L 8) from (his) camp of victory, pitched at Kudāvāda, commands as follows all men at the village of Vilembali in the district (vishaya) of Guddādi.
- (L 9) 'For the sake of the prosperity of Our family, I have given (this village), with all exemptions, to this Brāhmana Agnisarman of the Vatsa gotra Knowing this, all royal officers should exempt and preserve it'
- (L 11) The executor (a) na) of this (grant was the king's) dear son, Manchyanna-bhattaraka.

[Lane 12 f contain two of the customary Ślokas]

(L 14) In the thirty-seventh year of the reign of increasing victory, the 15th day of the 7th fortnight of the hot season.

No 21.—IPUR PLATES OF MADHAVAVARMAN II.

BY PROFESSOR E HULTZSCH, PH D, HALLE (SAALE)

This is another set of three thin copper-plates without rims, which belongs to the same owner as the preceding one (above, No 20). The plates measure 7 inches in breadth and 1½ inch in height and have four inscribed faces, the outer sides of the first and last plates having been left blank. The writing is much injured, especially on the two last faces. The plates are strung on a ring, which is about 3" in diameter, and the ends of which are secured in the base of

¹ Read न्रक 2 Read सप्तिश्री

^{*} The two last epithets are nearly identical with two others applied to the king before in line 8 f.

⁴ Heranyagarbha is the name of the fifth of the sixteen Mahādānas Cf anēka-Heranyagarbhh-ōdbhavasya in the Mattepād plates of Dāmōdaravarman (above, No 18), text 1 2 f, and apramēya-Heranyagarbha-prasavēna in the Görantla plates of Attivarman Ind Ant, Vol IX, p 102, text 1 8

⁵ The same opithet occurs (with the various reading avadhauta for vidhūta) in the Rāmatīrtham plates, l. 8 f., and in the Chikkulla plates, l 2 f

⁶ Cf above, Vol IX, p 59, note 6.

a circular, much worn soil, which is turned towards one side The seal is divided by a cross-line unto two sections In the lower section the legend शीसाधन[बस्म]. in two lines, is very faintly visible, while the symbols in the upper section cannot be made out. The weight of the plates, with ring and seal, is 30 tolas

The alphabet reminds us of that of the British Museum plates of Charudevi (above, Vol. The Upadhmānīya occurs in lines 12 and 16 The numerical symbols 7 VIII, p 143)

(thrice) and [40] are used in the date (1 13)

The language is Sinskrit prose (with two verses quoted in Il 14-16), but the abbreviation va (1 13) presupposes the Prairit form vasa (= varsha in Sanskiit) Consonants and doubled after r throughout, t before r in hshattrya" (1 3 f) and -puttras= (1 5), and ah before y in oddhyātō (1 7),1 while tea is employed for the in -satia- (1 6)

The inscription records the grant of a village, the name of which is doubtful, by Madhavavarman (II) (17), who resided at [Ama]rapura (11), ruled over the Trikūta and Malaya mountains (1 5), was a worshipper of the temple at Sriparvata (1 6 f), and belonged to the tamily of the Vishņukundins (ll 7, 13) His father was Dēvavarmin (l 5), and his grandfather the Mahārāja Mādhavavarman (I) (1 3 f) As the alphabet of this inscription seems to he of an earlier type than that of the preceding one, and as grandsons are frequently named after their grandfather, I consider it not impossible that Madhavavaiman II was the grandfather of Gövindavarman's son Mādhavavarman,2 who would then have to be designated Mādhavavarman III. The first figure of the year in the date portion of the subjoined inscription (1 13) is injured and uncertain

The localities mentioned in this inscription I am unable to identify, with the exception of Trikūts, a mountain on the Bombay side,3 and Malaya, i e the Western Ghāts, both of which were at a safe distance from the dominions of Midhavavanman II, although he professes to have ruled over them For Sriparvata=Śriśailam see above, Vol IV, p 195

TEXT 4

First Plate, Second Side

- स्विन्त [1*] [अम]रपुगिटेकादशाश्वमेधावभृयावधूतजगलास[प्र]-
- स्थारिनष्टोमसद्दस्याजिनोनिकरामन्तमञ्जटकूटम-
- णिखचितचरणयुगनकमसस्य महाराजस्य श्रोमा-
- धववर्म्मणः प्रियनमा चिम्नियावस्कन्दप्र[वर्त्ति]ताप्रतिमवि-

Second Plate, Frest Side

- [स्था]तपराक्रमस्य त्रोदेववर्माण. प्रियपुत्रस्त्रिक्टमलयाधिपति-
- 6 स्यविनयसत्वसंपद्मी सगवच्छीयर्व्यतसामिपादानु-

¹ But not in -2rādhyāya (1 8) and diyānō' (1 12).

See above, Vol XI, p z20, and cr Vol. IX, p 269.

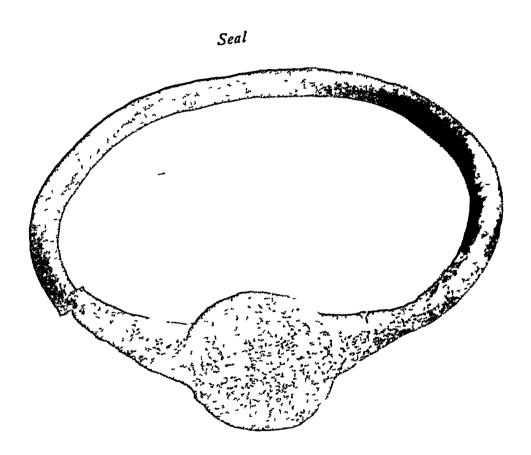
alead ^१चर्चभमतवुगदस Lead entra











7	द्यात	ग	विष्णु		1	श्री	[म]ा	ब[वव	मा	सुरो	-का-वि	त्रयामे	जनाने	[व]मा-
8	न्नाप		यथा											
					Se	cond	Plate	, Seco	nd Si	de.				
9	•	•	•	•	•	•	•	•	•	•	শ্ব	वेन श्रमी न्	र[शर्मा]	स्य[T]-
10	मा	•	•	•	•	•	•	•	•	•	•	[किळि]क-	
11	ग्राम	•	•	•	•	•		•	•	•	•			
12	Q 1.44400		जानः	बदै∺	परिच	र्त्तव्य	[:*]	[u]f	रेहार	[ियत	यस]	[1*]	श्रस्य	[शास]-
					T	hird	Plate	, Firs	t Srde					
13	[न]ः	याद्र	ग़ वि	णुक्[गडाधि]र[ा]ল[খ	थानीद	ात्ता]	n E	8] i	<i>e</i> [[o	वा	प ७
	Ð	r (० क्यों	2 11										

- 14 बहुभिर्वेस्रधा दत्ता बहुभियानुपालिता [।*] यस्य यस्य यदा भूमि-
- 15 [स्तस्य] तस्य तदा फल[म् ॥ खदत्तां परदत्तां वा यो हरेत वसुन्धराम् ।]
- 16 [गवां] भतसहसस्य [हन्तु] ४ पिवति किल्लिष[सिति ॥]

TRANSLATION.

- (Line 1) Hail! From [Ama]rapura, the dear grandson of the glorious Mahārāja Mādhavavarman, who had removed the stains of the world by bathing at the end of eleven Asvamēdhas, who had performed thousands of Agnishtōma sacrifices (and) whose pair of lotus-feet was studded with the jewels on the top of the diadems of many (bowing) vassals,
- (L 4) the dear son of glorious Devavarman, who displayed matchless, well-known valour in situacking warriors,
- (L 5.) the glorious Madhavavarman, the loid of the Trikuta and Malaya (mountains), who is endowed with policy, modesty, and honesty, who meditates on the feet of the holy lord of Śriparvata, (and who belongs to the family) of the Vishnu[kundins], commands as follows the men at the village of

[Line 8 f seems to refer to two donees, Agnisarman and Indrasarman]

- (L 12) The command $(\bar{a}j\tilde{n}\bar{a})$ of this edict* was ennobled by the meditation (?) of the overload of the Vishnukundins.
 - (L 13) The year [4] 7, the 7th day of the 7th fortnight of the rainy season 5 Om. [Innes 14-16 contain two of the customary Ślokas]

¹ Restore perhaps विश्ववादिना.

² Expressed by a symbol.

⁵ These two epithets occur also in line 6 f of the other Ivur plates (above No. 20).

⁴ Cf asya so-anasy-agnapith, South-Ind. Inser. Vol 1, p 57, text 1 119 f

With vī pa 7 cf + āsa 6 in the Hīrahadagalli plates (above, Vol I, p 7), varsha-pakshē chaturtthē (Vol III, p. 262), varshā-pakshah ashfamah (Ind Ant, Vol VII, p. 37), rāsā pakham 8 in two inscriptions at Jaggayya-pēta (ASSI, Vol I, p 110), vā pa 4 at Kurlē (above, Vol VII, p 64), vāsa pakhe 2 und vāsāra pakhe 4 at Nāsik (Vol. VIII, pp 71, 73.)

3 A

No 22—REVISED TEXT AND TRANSLATION OF TWO OF THE KURAM PLATES.

By Professor E HULTZCE, PHD, HALLF

Some time after I had published the Küram copper-plates of the Pallava king Paramēsvaravarman I, the late Professor Kielhorn recognised that plates III and IV of that inscription
in which I had not ced only two verses are all in poetry. I now reprint the very corrupt text
of this portion of the inscription (II 19-19), arianging it in verse lines, correcting the writer's
mistals: as far as I am able to do this, in notes and adding a fresh translation. Rao Bahadur
Krishna Sastri was good enough to contribute to this article a few additional conjectures, viz.
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The subjoined passage consists of 22 verses (5-26). The relative pronouns in verses 5 6 21, and 26 refer to the name of the donor Paramesianarammä, 1 19) at the end of the preceding prose passage. Verses 8-21 form one long relative sentence, describing the king's victory over the Chalukya king Vikramāditya I Verses 22-26 praise Paramēsvaravarman's state-elephant Arivārana, his charger Atisaja, his dagger, and his girdle

TEXT.2

सचेन्द्रवर्षाण: पुत्र[:] पग्मेचरवर्मा भरत इव सर्व्यदमन[:*] सगर इव स्तासमञ्ज्ञमत्याग: [।*] कर्णो इव पुष्तजागी य: प्रियक[ा*]व्यो ययातिरिव [॥ ५ ॥*] (a) Metre of verses 5-9 · Āryā (30+27 mātrās).

भनुपनतामा राज्ञा (d) यस्त्राज्ञा सपति नर्व्वदापीळा (b) [1*] सैव सप्टदास्प्रयच्छति सुख्योभा (c) कर्ण्यप्रतया [n & n*]

(a) Read राजां (b) Read °पांड: (c) Read °ग्रीमां.

चतुरः कलाविकासे नियतम् ययांदो (a) भवत्यनंगस्य [1*] मुक्तागुणस्तु हृदये सुकागुण एव वनिता[ना]म् [॥ ७ ॥*]

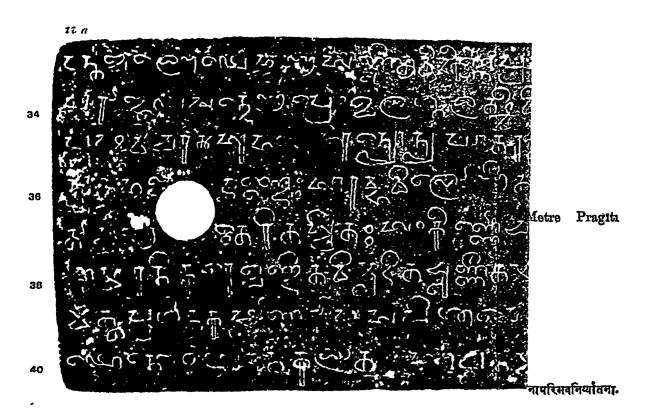
(a) Read नियतं चंडी

भगणितनरहयकरिकुलविमई जनितेन रेगृनुहिनेन [।*] भारोपितग्रिमण्डलसादृश्यसहस्रक्तरविस्त्रे [॥ द ॥*] पटहरवगर्ज्ञितोग्रे विकोशनिस्त्रिशत्विद्युदाभोगे (a) [।*] प्रवरितकुष्त्ररजलदे विकालवर्षावतार दव [॥ ६. ॥*]

(a) Read 'निस्विधिवधु (dyu)'

¹ South-Indian Inscriptions, Vol. I, pp. 144 ff.

² As the notes on the text are numerous and contain long Nagari passages, I am using for them ordinary type intend of the small and industrict note-type, which, as I know from experience, is hable to breaking and dropping





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तुंगतुरंगतरंगे प्रचरवारिमक्तरजनितविषमावत्तो (a) [1*]
घविरकस्दोर्क्यंखे विनुभसाणे ससुद्र इव [॥ १० ॥*] (b)
                 (b) Metre · Sugiti (32+27)
   (a) Rend oati.
खहलतावरणयुति सथरासननागतिलकपुत्रागधने [1*]
छद्रतकलक्षलभ्रव्दे कानन दव चर्छवेगपवनाकुलिते [॥ ११ ॥*] (a)
   (a) Metre . Āryāgīti (32+32)
योधापुरोतधनुष (a) व्यतिपतितपतिवष्दिष्दपवनफर्थे (b) [1*]
 (c) Read oquiquo.
                         (b) Read <sup>e</sup>पवनपथे.
    (a) Read योधाप्रितधनुषि.
                                                                 (d) Metre Pragiti
(30 + 29).
 षान्योन्यलीगरदनकुलीगस्थिरकिलितवदनमत्तगजवृन्दे (a) [।*]
 ष्मन्योन्वसृर्हेपातितखङ्गव्यतिपक्षत्तरगसादिगणे [॥ १३ ॥*] (b)
    (a) Read प्राचीनगरहनक्षित्रास्थिरकौष्तित<sup>o</sup>, (b) Metre Giti (30+30).
 श्रस्ताथस्त्रकाचाकचिदगढीर्कियाप्रव्यंक्तभटनने (a) [1*]
 भन्योन्यसदृश्यगणनपरिभवनीर्य्यातना (b) [॥ १४ ॥*]
    (a) Read मन्त्रामिकचाक्तिदणाटिणिकियाप्रयूप्तभेटे or प्रवृत्तभटे
                                                          (b) Read °गणनापरिसवनिव्यांतना.
The remainder of this verse is left out by the writer
 मुश्रमदिमित्रीतशीणितकुकुमधनिलिप्य[मा*]नभूमितले (a) [1*]
 विरह्तिनिपतितवाहुग्रीवार्ज[घो]क्वाग्डदन्तवलीय (b) [॥ १५ ॥^*] (c)
    (a) Read सगमदिमियित°.
                          (b) Read °लीचे
                                           (c) Metre Lalita (30+32).
 भ्युष्टम[म्पा]तविदीर्ग्णेप्रजवितविद्वत[भूमित]तीभयपचे (\alpha) [।^*]
 (a) From [47] to the end, this line is engraved on an erasure. To satisfy the metre
श्रीमसम्पात might be read (b) Read perhaps ° विदित्ते (c) Metre of verses 16-19 Aryagiti.
 क्धिरोघपालिकायीतपतितगजत्रेणिपृष्टविचरत्सुभटे (a) [1*]
 श्रन्योन्यघातरन्थानिध[1]मलािक्यायतिस्थितयोधि (b) [1 100 10]
    (a) Read दिधरीघपालिकायित and oggo (b) Read ogymaulaa.
 यस्त्रीयतसुजदण्डै: (a) सारभविलोहिताचदष्टोष्ठपुटै[:*] (b) [।*]
 राजन्यै[:*] क्वतक्वत्यै: नीइतिता र्षि इतैरितिस्थित: (c) संकी र्प्णे \mathbf{u} (d) [\mathbf{u} १८ \mathbf{u}^*]
    (a) Read शस्त्री. (b) Read सरम° (c) Read क्लूबेर्निइताई इतिरतस्तत. (d) The metre requires
w to be cancelled.
 भ्रीगर्णभ्रजातपति:* पिततगजय(a)सितचितचासरनिकरे [।*]
 खिष्डतविस्टितचृष्णितमकुटंगदचारकटककण्णीभरणे (b) [॥ १८ ॥*]
    (a) Read वाजाव . (b) Read वाजावार.
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क्षिरमधुपानसत्तप्रगीतकूषाग्ड[राच]सपिप्राचे [।*]
द[त्त] लयतु स्थका लप्रतिभयनी नृर्त्थम्कवन्ध शत्यो नौ (a) [॥ २० ॥*] (b)
   (a) Read भयनत्यस्कवसमत्यांनी (b) Meire Giti
[योने]कलाचसाधनमा[योध]नशिरसि (॥) विक्रमादिल[म् ।*]
कप्यटमात्रपरिच्छदम्(b) एकाकिपलायितम् [an](r) [n] [२१ n]
                 (b) Read कार्पट (c) Read क्स्ट्रिकाकिपनायित इसवाम्.
   (a) Read ত্বৰ
(d) Metre Ā15ā
रत्रप्रभाखचितकाञ्चनग्रारिवन्ध (॥)
 सान्नाह्य(b) नागमिकवारणनामधेय[H^*](c) [[*]
नित्यानुबन्धमदनिजरमद्रिनाथ (d)
 साचादिव दिपसइस्रक्ततानियातम् (e) [ \parallel \ \ \ \ \ \ \ \ \ \ \ ]
    (a) Read रव° and °वस (b) Read सदाध
                                          (c) Read onfigity (d) Read fartaferre
(e) Read व्यानुवातम्. (f) Metre Vasantatilaka
 तिदशपतितरगस्येवमष्टमंगलयते (a)
  षरसञ्चलसम् प्रव्यक्तकत्थाणनाति(b) [1*]
 त्रगमतिश्रयाखां(c) रत्नपः वाणवन्तम्
  सतमपि (d) इयलचैशामरच्छत्रकार्णि:
                                      11 23 11*7(e)
     (a) Read perhaps वृत्तास्प्रमांगर्ययात (b) Read perhaps व्यानमसम्बद्धान. (c) Read व्यान्त
 रवपच्यापमन्त (d) Read युतमपि (e) Metre Malini
  समरपरित्रमस्य अद्वयमहप्रसस्युजवीकम् (a) [।*]
  रत्तनखरमनुपम (b) माणिक्यमरकतिनवेशमण्डनम् [\| २४ \|*] (c)
     (a) Read °रुमसदृश तसममहीपलमालायुजमिकम् (b) Read रव and दमनुपम प (c) Metre Giti.
   स्रच्णगुण गुणन्तकटिस्रतम् उदीर्ष्णम् मण्पिमम् (a) [l*]
   (a) Read गुणवरकटिसूनमुदीवर्णनिष्णभम् . (b) Read कोटिमाणिकामनधमिभियुतम् (c) Metre ?
           भयवि[- - - + ]र्ष्यमार्थिवाना-
   सनसि
          दिशि चटितनित्वीं यशम् पुष्पमाचा[म्*] (b) [i*]
   इदम् महरदशेष (c) सत्तया
                              यत्तलचम्या
   सह वपुषी (d) विशेषालं ते दीरकात्या [ \| \ \ \ \ \ \ \ \ \ \ \ ] (e)
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(a) Read perhaps संयोगपाटावर्षं° (b) Read चितारिर्धे यंगां×पु³ (r) Read द्वानपरटिशेषं,

TRANSLATION.1

Mahēndravarman's son (was) Paramēśvaravarman,

(Verse 5.) who was a subduer of all (enemies), just as Bharata (bore the surname) Sarvadamana², who avoided improper conduct (asamañjasa), just as Sagara banished (his son) Asamañjasa³, who possessed a strong body (anga), just as Karņa (was the king) of the rich Angas, who was fond of poems (kāvya), just as Yayāti was fond of (his father-in-law) Kāvya (Usanas);

(Verse 6) whose command always becomes a chaplet on the heads of (* *e* is received with respect by) independent kings, (but) also confers splendour on the faces of (* *e* fills with loy) (his) friends by reaching (their) cars, [just as an ear-ring (karnapāra) becomes an ornament to the face],

(Verse 7) (who) is clever in the sport of fine arts (kula) (and) constantly passionate in ove, and who avoids vice (mukt-āguna) in (his) heart, (but) also (becomes) a pearl-necklace (muktā-guna) on the breast of (his) wives,

(Verse 21.) who put to flight Vikramāditya,—whose army (had consisted) of several lakhs, (but who was left) quite alone (and) covered only by a rag,—at the head of a battle,

(Verse 8) in which the disk of the sun was made to assume the likeness of the circle of the moon through the mist of dust produced by the stamping of countless troops of men, horses, and elephants,

(Verse 9) which inspired terror through the thunderlike sound of kettle-drums; in which unsheathed swords (reminded of) the curves of flashes of lightning, in which elephants were advancing like clouds, (and which therefore) resembled an unseasonable breaking of the monsoon,

(Verse 10) in which tall steeds (looked like) high waves, in which elephants tore up the ground on their path, just as sea monsters produce whirlpools in diving up, in which conches were incessantly blown (or cast up), (and which therefore) resembled the gaping ocean,

(Verse 11) which contained curved swords and shields (āvarana), (resembling) rhinoceroses, creepers, and varana (trees), which teemed with heroes holding bows and (riding) mighty elephants, (as if it were) covered with śara (grass) and with asana, nāga, tilaka, and punnāga (trees), in which confused noises were raised; (and which therefore) resembled a forest agitated by a violent wind,

(Verse 12) in which bows were bent by warriors, in which the air was obstructed by arrows flying past each other, in which javelins, pikes, darts, clubs, lances, spears, and discuses were flying about.

(Verse 13) in which troops of mast elephants firmly impaled each other's faces with the thunderbolts of their tusks, in which squadrons of horsemen were connected by their swords that had struck each other's heads,

¹ To make the construction clear, I had to place verse 21 before verse 8

² Cf Mahābhārata, I, 74, 8, VII, 68, 7, and Sakuntalā, ed. by Cappeller, p 98, 1 2, p 95, 1. 24; p. 97, 1. 8; p 102, 1. 21

In the epic poems he is called Asamatija or Asamatijas.

The poet seems to hint a comparison of the king to the moon, who is 'charming in the splendour of his digital (kelā),' and to Siva, who 'was angry with the god of love.'

- (Verse 14.) in which soldiers were engaged in fighting with sword against sword, pulling of hair against pulling of hair, and club against club; considering each other as equal (or) despising (each other),
- (Verse 15.) in which the ground (seemed to be) thickly smeared with saffron, as the blood (of the wounded) was mixed with the musk (anointing their bodies), in which (both) large armies had lost and dropped arms, necks, shanks, thigh-bones, and teeth,
- (Verse 16) in which, during the encounter, both parties were broken, arged on, put to flight, and stretched on the ground, which was witnessed by the goddess of fortune sitting on the swing of doubt about mutual victory and defeat;
- (Verse 17.) in which brave warriors were marching on the back of lines of fallen elephants forming a bridge over the flood of blood; in which soldiers stood rendered motionless, as their blows did not hit each other's weak parts;
- (Verse 18 f) which was covered here and there with elephants which had fallen (simultaneously with shattered banners and parasols), and whose respirations waved the mass of chowries and with dead (or) half-dead warriors who had done their duty, whose strong arms (still) raised the weapon, whose hips were bitten, and whose eyes were deep-red with fury, in which taras, armlets, necklaces, bracelets, and ear-rings were broken, crushed, and pulverized,
- (Verse 20) in which Küshmandas, Rākshasas, and Pıśachas were singing aloud, as they were intoxicated by drinking the liquor of blood, (and) which contained hundreds of headless trunks daucing together in a fearful manner and beating the time (with their hands)
- (Verse 22) Having caused to be accounted the elephant named Arivārana,—whose golden howdah was studded with the splendour of jewels, the flow of whose rut was incessant, (and who therefore) resembled the king of mountains (Himālaya) himself, whose torrents never cease to flow,—followed by thousands of (other) elephants,
- (Verse 23) also the excellent horse named Atisaya,—who displayed the majestic stepping of the horse of the lord of gods (Indra); who manifested his noble breed by his active jumping; (and) who bore a saddle (set with) jewels,—accompanied by lakhs of (other) horses whose ears were surmounted by chowries;
- (Verse 24) (and having put on) an unique and unequalled curved dagger (set with) jewels, which was fit for the fatigue of battle, attached to a string of matchless big stones, (and) ornamented by being inlaid with rubies and emeralds;
- (Verse 25.) (and) a valuable, priceless, famous girdle (which was strung) on a soft string, which emitted the splendour of gems, and the ruby at the end of which (resembled) the bright sun;
- (Verse 26) he (viz Paramēšyaravarman) who had destroyed his enemies, inspiring with fear [and despair] the minds of princes, (and spreading) the flower-garland of (his) fame in all regions, carried all these (ornaments) on (his) body that was highly adorned with heroic deeds,—along with the powerful goddess of fortune clinging (to him)

¹ This seems to refer to verse 241.

No 23—DILANAIDAHA COPPER-PLATE INSCRIPTION OF THE TIME OF KUMARAGUPTA I THE YEAR 113

BY RADHAGOVINDA BASAK, MA, CALCUTTA.

This inscription, engraved on a thin copper-plate which now looks very much worn out and fragile was discovered about a decide and a half ago in a village called Dhanaidaha in the Nature Sub-division of the Raphihi District in the Raphahi Division of the Bengal Presidency. Bahn Akshaya Kumāra Maniroya, B L., Ducctor of the Varendra Research Society of Rajshāhi, obtained it from Milly Muhammad Eished Ali Khan Chondhuri (now Khan Bahadur), and it is now deposited in the Museum of the Society along with the five copper-plate inscriptions! of the Gupt's period secently discovered at Damodaspus in the District of Dinappur edited in 1909 by Mr. R. D. Banery, then of the Calcutta Museum, in the Journal of the Assatio Soculy of Bingal (Vol. V. No. 11, pp. 159-61) Mi Banery's decipherment of the inscription was not counci, and the te t as prepared by him contained some mistakes. Mr Vincent Smith in his Larly History of India (3rd Edition) has referred to this epigraph by the name of the Natore inscription in a foot-note at page 327, but he could not make out any material for the history of the period, probably because Mr Banerji's reading was unsatisfactors and because of his is marks that "the wording of the record is rather difficult to interpret," and that "no continued translation is possible of the text" While editing two of the Damodarpur inscriptions belonging to the same monarch's reign, I had to revise the reading of this inscription, and I re-edited it in the Bengali monthly, the Sahitya of Calcutta, in the Pausha I now record the results of my decipherment in this Journal for the scenting of scholars. Some of the chief mistakes in Mr. Binorji's reading will be pointed out below in the foot-notes. Other differences in our readings may be left to be found out by those of our readers who may care to do so

The inscription is a fragmentary one, consisting of 17 lines of writing incised in the early Gupta characters of the 5th century AD It is written on one side only of the plate, which is now very much consided. In length the full plate seems to have been almost twice the fragment now preserved, which measures $5\frac{1}{4}$ × $5\frac{1}{4}$ Almost the whole of the proper right half of the plate is broken and lost together with the upper right and lower left corners. From an examination of the portions of the writing preserved in lines 14-16, which form parts of the wellknown improvatory verses, it can be ascertained that about a dozen and a half letters are cut off from the proper right side of each of the lines This loss of almost half of the inscribed portion and the extremely blurred state of the letters preserved are the greatest obstacles in explaining the document But the five newly discovered Damodarpur copper-plates and the four Fandpur grants' have helped us much in deciding that the present plate also, like them, is not an ordinary royal land-grant, but is a sale-deed embodying the record of a purchase of land for the purpose of donation Mr Baneiji states that the tragments of the proper upper right corner, which was broken in the exhibition grounds of the Calcutta Industrial Exhibition of 1906-7, contained the two letters ma and ra, which, he thinks, were evidently the second and third syllables of the name of the emperor Kumura-gupta. The inscription is dated in 113, which must be referred to the Gupta era, and this evidently proves that it belonged to the time of the Gupta

[&]quot;I Above, Vol. XV, No. 7. I take this opportunity to acknowledge most thankfully the suggestion of Mr. K. N. Dikshit, M. A., Superintendent of Archeology, Eastern Circle, that I should have read 128 in place of 129 and 224 in place of 214 as the dates in Plates Nos. 2 and 5 respectively of the Dāmodarpur inscriptions. These corrections in the dates do not quite materially affect the historical deductions I made in my paper on them published in this Journal.

² Indian Antiquary, 1910 and J. A. S B, 1911, No 8.

monarch Kumāra-gupta I The language of the inscription is Sanskrit, and it is in prose throughout excepting in lines 14-16, which contain the three imprecatory verses. Mr Banery's statement that "the bad state of preservation makes it very difficult to make any remarks on the orthography" cannot be upheld, for, the following points in respect of orthography may easily be observed.—

- (1) as in the Dāmodarpur copper-plates, the sign of the medial ā is attached by a hook-sign towards the bottom of the lower right of some of the letters, especially of tha, ga and na, eg khāsaka 1 5, Khādā(tā?)pāra-1 7, grām-āshṭa-1 6, and gun-āguna-1 13,
 - (2) the sign of dvagraha is not used, as in -vishayē=nuiritta- 1.7;
- (3) the letters ga, na, ta, ma, ya and va (and not sha, e g rarsha-1 15) are doubled with a preceding r, e g. vargga-1 4, svarggē l. 15, utkirnnam 1 17, kīrtti 1 4, -sarmma 11 3 and 5, dharmma 1 8, -maryyādā-1 7, and -pūrvva 11 2 and 16, sarvra l. 9,
- (4) m has sometimes been joined with following pa and ra, e.g. in scadattam-paradattam=val 14, and
 - (5) ka has been doubled with a following r, e.g in khramēna(na) 1 8

The form of the initial vowels \$\bar{a}\$, \$\bar{a}\$ and \$u\$ are seen in the following words respectively, \$\bar{a}yuktaka 1 11\$, \$iha 1. 7\$, and \$utkirnnam 1. 17\$. The form of the letter \$m\bar{e}\$ in \$ktram\bar{e}na(na)\$ 1 8, \$sarvvam=\bar{e}va\$ 1. 9, \$Stha(Sta)mbh\bar{e}svara\$ 1. 17\$, and \$-kulyav\bar{a}pam=\bar{e}kam 1\$ 11\$, is to be noticed. For a similar incision of \$m\bar{e}\$, especially the \$\bar{e}\$ mark in it, we may compare the words \$t\bar{a}vyam=\bar{e}sh\bar{a}m\$ 1. 31 in Fleet's, C. I. I Vol III, No 1 and \$guh\bar{a}m=\bar{e}t\bar{a}m\$ 1 5 (tbid, No 6), and the word \$d\bar{o}sha-qr\bar{a}m\bar{o}\$ 1 1 (wrongly read as \$d\bar{a}s-\bar{a}qr\bar{e}na\$ by \$Mm\$ H P \$\bar{S}\bar{a}stm\$ and \$Mr\$ R D. Banerpi) of the Susuma Rock Inscription (above, Vol XIII, p 133) In my paper on "The Five Damodarpur copper-plate inscriptions of the Gupta period," published in this Journal (vide Vol XV, Part III), I made a remark at the outset that those sale-deeds, which our present inscription resembles, "may be regarded as having roughly six different parts in the form in which they are drawn up" The same remark holds good with regard to this inscription also the first part ends with the word \$vi\bar{n}\bar{a}pit\bar{a}\$ 1 7, the second with \$d\bar{a}[tum]\$ 1 8, the third with \$tad=avadhritam=its\$ yatas 1 10, the fourth with \$bkam dattam\$ 1 11, the fifth with \$-Var\bar{a}ha-sv\bar{a}min\bar{o}\$ dattam\$ 1. 12, and the sixth with the rest of the grant

The contents of the inscription may be stated as follows:—In the year 113 GE (=432-33 AD), belonging evidently to the reign of Kumara-gupta I, some one (very likely a royal officer, an ayuktaka) whose name seems to have ended in -vishnu (1 7) approached the village householders, the mahattaras and the ashta-kul-adhikaranas and perhaps also the local government of the district and expressed to them his desire to purchase one kulyavāpa of cultivated land by paying the price at the usual rate prevalent in the vishaya of Khādā(tā?)pāra It seems that the applicant wanted to buy the land by destroying the nivi dharma (the non-transferability of it), 2 e with the right of alienation His prayer was granted and the purchased land was severed for him by proper measurement. He in turn seems to have made a donation of the same to a Samavēdin Brahmaņa (chhandoga 1 12) of the name of Varāha-svāmm It seems very probable, though the mutilated condition of the plate does not permit us to be very confident on the point, that the Dhanaidaha plate contained a reference to the Pundravardhana bhukti being under a governor appointed by the Gupta ruler (compare the Damodarpur plates of the years 124 and 128 GE, belonging to the same monarch's reign) and that the vishaya of Khādā(tā ?)pāra was, like Kötivarsha, one of the many districts of the same bhuktr. In the Khālimpur copper-platel of Dharmapala, King of Gauda, though of the 9th century AD., we have the names of two other nshayos, viz. Mahantaprakasa (l. 31) and Sthalikkata (l. 41), as being situated in the bhukts of Also in the state of the state

Dhanaidaha Copper-plate of the time of Kumaragupta I the year 113



I edit the inscription from the original plate -

TEXT.

4	n=d[1]\asa³-pūrvvāyām parama-daivata-para-4
4	
5	åla pa (?)-vishņu - [Dēva]šarmma - Vishnubhadra ⁷ - Khāsaka - Rāmaka- öpāla sa (?) su (?) Śrībhadra-Sōmapāla-Rām-ādyāh (?) grām-āshta-kul= ihikaraņañ=cha vishnunā (?) vijñāpitā iha ⁸ Khādā(tā ?)pāra-vishayē=nuvjitta ⁹ =
G 6	ōpāla- sa (?) su (?) Śribhadra-Sōmapāla-Rām-ādyāh (?) grām-āshta-kul= lhikaraņañ=cha vishnunā (?) vijñāpitā iha ⁸ Khādā(tā?)pāra-vishayē=nuvjitta ⁹ =
6	sa (?) su (?) Śrībhadra-Sōmapāla-Rām-ādyāh (?) grām-āshta-kul= lhikaraņañ=cha vishnunā (?) vijñāpitā iha ⁸ Khādā(tā?)pāra-vishayē=nuvritta ⁹ =
m	
_	
	nivi-dharmma-kshayëna labhya[tē] [ta]d=arhatha mam ¹⁰ =ādy= nën=arva kkramèna(pa) dā[tum]
•	samētya=ā(?,bhilntai(h ?) sarvvam=ēva * jñā(?)kara-prativēái(?)= atumbibhii=avasthāpja ka-
10 .	* 11 * kana * yad=1tō * * [ta]d=avadhr1tam ¹¹ =1ti yatas= th=čti pratipādya
11 . ta	vaka ¹² -nalá[bhyā]m=apaviñchhya kshētra-kulyavāpam=ēkam dattam tah āyuktaka-
	* bhrā(?)trı - kaṭaka - vāstavya¹³ - chhandōga - bɪāhmana - Varāha= zmɪnō dattam tad=dha-[va ?]
ka	bhúmyā dā[n=ākshē]pē cha guṇ-āgunam ¹⁴ =anuchintya śarīra= ı(kā)üchanalasya chi-
VĒ	
15	[bhɪh] saha pachyatē [*] Shashṭɪm ¹⁵ varsha-sahasrānı(pɪ) arggē mōdatı [bhū]mɪdah [*]

Read samvatsara. 2 Read -öttarē. 8 Read asyān=dirasa-

Read -paramabhaffāraka. In the Dāmödarpur plates also Kumāra-gapta I is styled parama daitata.

Read, perhaps, mahattara-

^{• &}amp; 7 Mr Banery reads Kshamavanta and Vishyabhadra.

Mr Banorji reads Mahā-khushāpāra

[•] Mr Banerji reads nivatta instead of anuvritta

¹⁰ Mr Banerji's reading "māśādya nanu vakkra lēna (?)" instead of our reading "mam=ādya=ānēn=aiva kkramēna(na)" and his remark on the paleography of his supposed la in his own reading lēna (?) is unwarranted

¹¹ Instead of avadhīstam=str yatas=tath=štr Mr Banerji read dahyakam=str yatas=t(y)ajatr

¹⁸ Mr Bauerji reads vantēbhya (?) for vāstavya and chāndasa (?) for shhandāga.

¹⁴ Mr Banerji reads funu (?) gunam.

¹⁴ Mr. Banerji reads fashfi(m).

- 16 . [Pū]rrva-dattām dvijātibhyō yatnād=raksha Yudhishthira mahim [mahi][matan=chhreshtha*]
- 17 Śribhadrēna(na) ya[m] su (?) utkirnnam Stha(Sta)mbhēśvara¹dāsē[na]

TRANSLATION.

In the year one hundred exceeded by thirteen on this day (as above specified), [during the reign of] parama-dawata parama-bhattāraka, etc Kumāra-gupta . . the ryots (of the village) the Brahmanas Sivafarman, Nāgaśarman and the Mahattaras² [Dē?]vakīrtti, Kshēmadatta. Gōshthaka, Varggapāla, Pingala, Sunkuka, Kāla , -vishņu, Dēvašarman, Vishņubhadra, Khāsaka, Rāmaka su (?) Śribhadra, Sōmapāla, Rāma and others, and the officer3 in charge of eight kulas in the village were informed by (some officer whose name appears to have the ending Vishnu 1. 7) as follows —

"In this vishaya of Khada(ta?)para the established custom (regarding the sale of cultivated land) prevalent to be had (at such rate) by the nullification of the custom of permanent endowment' (nīvi-dharma) So deign to make a gift (of land) this day according to this method . . . by the neighbourng house-holders who are obedient and who are (thus) addressed establishing

Whereas it was so determined, and whereas this determination was accepted by the statement "be it so"—one kulyavāpa5 of cultivated land was given to him, with its area severed6 by the measurement of 8 x 9 reeds.

Then the same land was given to the Chhandoga (Samavedin) Brahmana Varaha-svamin, an inhabitant of the kataka8 of . . . , by this official9 (āyuktaka)

So, considering the merit and demerit respectively of making a gift and confiscating (it), and (the unstability) of body and gold, (this gift is to be preserved) To the same effect has been stated thus by Bhagavān Dvaipāyana (Vyāsa) ---

- (1) Whoever confiscates land given by himself or by another becomes a worm in ordure and rots with his forefathers.
- (2) Land has been given by many kings, such as Sagara and others the reward (of these grants) belongs to whosoever at any time possesses the earth.
- (3) O Yudhishthira, best of land-lords, preserve with care land already given to the twiceborn (Brahmanas); for, the preservation of land-grants is more mentorious than the making of a grant. Engraved by su (?) Śrībhadra and (written) by Stambhēśvaradāsa.

¹ Mr Bane-ji reads the name as Sthahnetvara

² Vide my note on this word in Plate No 4 of the Damodarpur collection, above, Vol. XV, p. 187.

Fide my note on this word, sold, p 137 Mr Banerji's explanation of this term as "a local officer (bulddhikarana) who exercised authority over eight villages" does not seem to be correct. He was rather an officer in the village having supervising authority over eight kulas (for the technical meaning of which see Kullüka's

Fide my note on the term nirs in Plate No 1 of the Damodarpur collection, above, Vol. XV, p. 131, n. 8, and Indian Antiquary, 1919, p 14. Fide my note on this word on p 132, above, Vol. XV.

⁵ The word apartickhya occurs in the Paridpur grants (Indian Antiquary, 1910) and in Dâmodarpur plate-Ka. 3, 1, 10, p 136, above, Vol. XV.

Chlandoga means one studying the Samaveda. For the use of this term vide Manu, III, 145, and the Establica Plate of Harrins, above, Vol. IV, p 211.

[·] Kefake may either mean a camp or the capital.

t Files my note on the same in Plate No. 4 of the Damoderpur collection, p. 140, shove, Vol. XV.

No 24.—SOME IMAGE INSCRIPTIONS FROM EAST BENGAL.

By Nalinikanta Bhattabali, M.A., Curator, Dauca Museum

The short votive inscriptions recorded on the pedestals of images are often very useful to the antiquarian in more ways than one. They not only illumine the darkness of the past like flash-lights by furnishing pointed and concise historical information, but the help that they give in determining the periods of sculptural history is by no means inconsiderable. Students of iconography too have reason to welcome them, since many votive inscriptions contain the names of the images on whose pedestals they are inscribed, helping thus to identify them easily. Below I edit six such votive inscriptions from East Bengal, in some of which all the three characteristics noted above will be found to exist to the fullest degree

1. The Bhārellá narttēśvara image inscription

The worship of images of Natēśa-Śiva (the dancing Śiva) seems to have been a peculiarity of Southern India Such images in metal abound in Southern India and Ceylon; but they are very rarely met with in the North-Indian Provinces How Bengal came to share this peculiarity with the Deccan is one of the unsolved problems of history. We must, however, note here that north and west Bengal do not show this peculiarity, and it is only in the south-eastern districts, roughly comprising the ancient divisions of Vanga and Samatata, that images of the dancing Śiva were discovered. The Dacca Museum has three excellent specimens, while a rather ill-preserved one is to be found in the Rājshāhi Museum. I know of two other very well preserved Natēśa images, which are being worshipped in two villages in the Dacca and Tippera districts of East Bengal.

The discovery of so many images of the same class in a rather limited area cannot be accidental, and it is quite possible that their worship was introduced by some Saiva ruling family. The Sēna kings, whose origin some trace to the Decean, had their metropolis in Vikramapura in the Dacca district, in the heart of the ancient Vanga, as is attested by the majority of their copper-plates, and they were renowned Saivas. It is very probable that the worship of Natēsa-Sīva came from Southern India with the Sēnas. It is worth noting that out of the seven images so far discovered and known to me, five came from Yikramapura, and a village situated in the suburbs of the capital of the Sēnas in Vikramapura (a pargana in the Dacca district) contains the ruins of a big temple and is still called Nātēśvara. The present image, however appears to be earlier than the Sēnas

The inscription here edited was found on the pedestal of a huge image of Natesa-Śiva dug out of a tank in a village called Bhārellā, Police Station Badkāmtā, in the district of Tippera. It was brought to my notice in 1911, and in 1912 I went to Bhārellā too late to save the image, which was broken to pieces by a fanatic Fakir, but I procured the inscribed pedestal for the Dacca Sāhitya Parishat, where it is at present preserved. A large fragment of the figure of the god is now in the Dacca Museum I edit the inscription from the original

The inscription is in two lines in four sections on four planed faces of the pedestal, below the lotus-seat of the god. The whole inscribed surface measures in length about 14", and the letters are approximately 1 long. The first section has suffered a little by the peeling of the stone, while the beginning of the third and the longest section has been altogether chopped off, damaging altogether 12 or 13 letters of each line. The first line runs connectedly to the end of

¹ The image was found in the village of Kalikal under Police Station Lauhajang in the Waccar district. So it thust not be taken as an instance of a find in north Bengal.

the third section and then returns to the first section to begin the second line. The name of the sculptor is given in the fourth section in two lines.

The characters used are the ordinary north-eastern characters which gave birth to the modern Bengali script, and which even at this stage show distinct resemblance to the modern script of Bengal Paleographical considerations would lead us to assign the latter half of the 10th century as the time when this inscription was incised. The date is missing, but it may be that the lost portion of the second line in the beginning of the third section contained a date. There are some data from which a date perhaps is obtainable by mathematical calculation. The image was consecrated on a Thursday, under the star Pushya, on the fourteenth day of the dark half of the month, the day being the 14th of Ashādha counted by the movement of the moon. It would be a very interesting calculation to lovers of astronomical problems to find out in which year or years between 900-1100 A.D. all these data met. I myself do not possess the necessary equipment for the calculation. Dewan Bahadur L. D. Swamikannu Pillan who was consulted by Mr. Krishna Sastri on my behalf kindly writes.—

"Between 900 AD and 1000 AD there are three dates which agree perfectly, viz A.D 912, 939 and 983 I have marked these with an asterisk in the accompanying list which shows also dates of less perfect agreement. There must be an equal number between AD. 1000 and AD 1100 We cannot tell which of these dates is meant

Thursday Ashadha, ba 14 Pushya
A.D 905 Th 4 July; .32, n f d 75
A.D 912 Th 16 July, .09, 63*
A D 925 Th 21 July, f d t 52, f d. n 68
A.D 932 Th 5 July; 52, f d n. 90,
A.D 939 Th 18 July, 41, .86*
A D 942 Th 14 July, f d.t 12, f d n 89.
A D 966 Th 19 July, .71, f d n 09
A D 969 Th 15 July, f d.t 21; f d.n 90.
A.D 983 Th 12 July, 03, 94*

A.D 993 Th 20 July, f. d. t .01, f d. n .30"

He adds "14th tithi means nothing more or less than 14th day by the movement of the moon. A solar month date would be different, but in a linear month the days and tithis are the same in the Indian Calendar. In the Muhammadan, Jewish and Greek Calendars there may be a slight difference"

The inscription refers itself to the 18th year of the reign of a king Layaha-Chandra by name Kings with the surname Chandra are found on the thrones of two adjacent countries, viz Vanga and Arakan The Chandra kings of Vanga, who, like the Sena and the Varman kings, had their capital in Vikramapura, are known from two copper-plates ¹ But no name in their geneology resembles Layaha-Chandra, which sounds indeed rather outlandish. We find an account of the Chandra kings of Arakan in Phayre's History of Burma, p 45, and Numismata Orientalia, Vol II, Pt I, p. 42, by the same author, where we learn that the dynasty came to an end in 957 A.D. We know of another isolated Chandra king of Vanga, Gövinda-Chandra by name, from Rājēndra-Chōla's inscription ² Layaha-Chandra-dēva must have may be taken as the date of this inscription

¹ Ep Ind., Vol XII, p 186 and Dacca Review, Vol II, p 250 Recently a third plate of Śrī-Chandra, dēva was found and educed by me in the Narca Review for May and June 1919, 17 XII. 1919.

Ep Ind., Vol. IX, pp. 252-288,

Ballads, at one time very widely popular are current about a king called Gövinda-Chandra throughout Bengal One was published by Grierson'in J. A. S. B., 1873. Another was published by Babu Sib Chandra Sil from Chinsura near Calcutta. I published a version by a poet called Bhabānīdās, edited from two manuscripts of the song procured from the Tippera district. All these versions say that Gövinda Chandra was the daughter's son of Tilak Chandra king of Mēhārkul which is still a pargana of the Tippera district. Gövinda Chandra of Rājēndra-Chōla's inscription and the Gövinda-Chandra of the ballads appear to have been the same person, and Layaha may have been the name of the father of Tilak Chandra.

Kusuma-dēva, whose son Bhāvu-dēva consecrated the image of Narttesvara, seems to have heen a vassal prince under the suzerainty of Layaha-Chandra, ruling over Karmmanta, which I am inclined to identify with modern Badkamta (the senior Kamta), some three miles southwest of the find-place of the image Badkāintā is still a place of considerable importance, being a police station with a big Zemindary kachery, situated within a spacious area surrounded by an ancient most and containing two big tanks, in the smaller of which many ancient stone images of Stone images, both Buddhist and Brahmanical, abound in the Brahmanical deities were found villages surrounding Badkamta, and testify to the former prosperity of the tract. The area The appellation Deva at the surrounded by the most probably indicates the site of the palace end of the names of Kusuma-deva and Bhavu-deva is also in favour of supporting their claims My friend Prof Rådhägövinda Bäsak, MA, however, is in favour of taking to royal dignity the word Karmmanta to mean 'a store of grain,' and degrading Kusuma-deva to the rank of an officer in charge of the royal granary We know that the two plates of Deva Khadga published by the late Gangamohan Laskar in the Memous, A. S B, Vol I, were issued from Jaya-Karmmanta. I have elsewhere tried to show that Karmmanta the capital of the Khadgas and the Karmmanta of the present inscription are identical, and is the present Badkamta (J A. S B., July 1914)

The language of the inscription is Sauskrit prose throughout As to orthography, we may note the doubling of consonants after r as in $karmm\bar{a}nta$ (1 1), $sarvv\bar{a}kshara$ (1 2), etc, but $chaturdasy\bar{a}\dot{m}$ (1 1) is spelt with one d

Numeral figures for 1 and 4 are used in designating the 14th day of Ashadha

The letters of the inscription are mentioned to have been engraved by one Ratōka, but Madhusūdana seems to have been the sculptor who made the image.

TEXT.

Part I

- 1 [सिविरस्तु¹] श्रीमझयहचन्द्रदेवपादीयविजयराच्ये श्रष्टा[दश * * * * क] जावतुर्द्रश्चां तियौ व्रह्मपति²वारे पुष्पनचत्रे कर्मान्तपालश्ची-
- 2 कुसुमदेवसुत्रश्रीभावृदेवकारितश्रीनर्त्तेश्वरभट्टा[* * * * * * *] पन्द्रगत्वा प्राषाढदिने १४ ॥ खनितघ रतोकेन सर्व्याचरः

Part II.

- 1 खनितञ्च श्रीमधु-
- 2 सुटनेमिता ॥

¹ Expressed by a symbol, see below, p 352,

² Read गुरुस्ति-

N B-It is customary to read the auspicious symbol Q or 2 in the leginning of en inscription as A and this interpretation has been adopted by eminent epigraphic's like Hoerile and Fleet Hoernle writes thus (Intro Bouer Manuscripts, Indian Antiquary reprint p 22) -"Indian manuscripts or records as a rule commence vith rome banedictory word, such is reddligm 'success' or swasts 'hail' or with the sacred particle Om . The last mentioned is almost universally used at the present day It may be either a ritten in full or indicated by a symbol. The latter takes the form of a spiral, which may turn either to the right or to the left, and which is probably a conventional representation of the sacred fartha, or concl-thell editing the Mankuwar Stone Image Inscription of Kumara-gupta, where this symbol is not with for the first time, Dr. Fleet remarks (Corpus Ins Ind , p 46, n 3) -- " As was usual throughout the whole of the period covered by this volume, this word is represented by a symbol, not by Om is not of very frequent occurrence at the commencement of Buddhist inscriptions" Thus both the scholars read the symbol as Om, but none has advanced any reason for their reading it so Writing about eight centuries and a half earlier, Al Berum also says the same thing (Vol I, p 173) -"The Hindus begin their books with Om, the word of creation, as we begin them with 'In the name of God' The figure of the word Om is This figure does not consist of letters, it is simply an image invented to represent this word, which people use, believing that it will bring them a blessing and meaning thereby a confersion of the unity of God" This passage of Al Berum is perhaps responsible for the confident reading of Hoernle But the reading should be reconsidered in the light of the following points and Fleet

- (a) In Bengal, this symbol was largely used in all ancient documents and manuscripts and in teaching alphabets to beginners they were taught to draw this symbol to start with. This custom was prevalent as late as twenty-five years ago, but has disappeared by this time. This symbol was called āmji and was supposed to signify the god Gancéa, the giver of success, being drawn to represent his elephant's trunk. In reading, it was read Siddhir-actures.
- (b) In the Gupta inscriptions this symbol only appears in those in which the customary benediction Biddham is left out, and nowhere does it appear with it Consequently it must have stood for Biddham, and as time went on it must have become more and more customary to represent the word by this symbol
- (c) In some inscriptions the symbol is found to precede Om, which would never have been the case if the two were identical. In such cases the reading given is Om Om, which is certainly not reasonable. Reference may be made to Epiqraphia Indica, Vol. XII, p. §, Ibid, Vol. XIV, p. 159, for examples of the joint use of Om and this symbol.

In view of these facts, the symbol, I think, should be read Siddham or Siddhirzastu!

TRANSLATION.

Part I

May success attend! In the eighteenth year of the victorious reign of His glorious Majesty Layahachandra-dēva, on Thursday in the dark Fourteenth Tithi, and under the star Pushya, Bhāvu-dēva, son of Kusuma-dēva, Lord of Karmānta, caused to be made the Lord Narttēśvara . . on the 14th day of Āshādha (calculated) by the movement of the moon And all the letters engraved by Ratōka

Part II.

Also engraved by the illustrious Madhusudans.

In the Tamil country the same symbol slightly modified 2 is even today called the Pillaryar-full Ganesa's surl' and is first taught to be drawn by children before they begin to learn their alphabet —Ed]

2. THE BAGHAURA NARAYANA IMAGE INSCRIPTION.

This inscription was brought to my notice in 1912, when I went to Tippera to secure the inscription described in the foregoing pages. Ramānath Chakravarty, a former pupil of mase, whom I met in Comillä, gave me to understand that an inscribed image of Vishau had been discovered in a village near the Sub-divisional town of Brāhmanbānā in the Tippera district and that the local people had been able to read the word. Mahipāla on the inscription. My curiosity was considerably roused to come across an inscription of the Pāla kings so far east from their native home in north Bengal. Pressure of business, however, did not allow me to go after the inscription at that time, and for the next two years I was too busy elsewhere to think of getting at it. Towards the beginning of the year 1914 a friend of mine, Babu Upendrachandra Guha, BA, BT, who is an enthusiast in matters archeological, secured chalked photographs of the inscription and published an article with a reading of it in the local monthly, the Dacca Review. The reading, however, was rather defective, and I gave a more correct reading in the next number of the Jacca I also published a correct reading of the inscription in the January number of the Jacca I 1915 and pointed out its importance.

The image containing the inscription was dug out of a pond some ten or twelve years ago in the village of Bäghäurä near the Sub-divisional town of Brähmanbäriä in the district of Tippera. It is now worshipped by a half-crazy woman in the neighbouring village of Vidyākūta. In January 1915 I visited the spot and obtained some excellent photographs of the image, but no amount of persuasion could prevail upon the woman to part with the image

The inscription purports to be of the third year of king Mahīpāla, presumably Mahīpāla I of the Pāla dynasty of Bengal. It records the installation of the god Nārāyana in Samatata, included in the kingdom of Mahīpāla, by a merchant, Lōkadatta, son of Vasudatta and hailing from the village of Bilakīndakā, in furtherance of the ieligious merit of himself and parents Bilakīndakā is in all probability the village Bilakēnduāi, situated close to Bāghāurā

The importance of the inscription is twofold. First, it definitely settles the position of the kingdom of Samatata There is no room for doubt now that the village of Bilakendusi must have been inside the kingdom of Samatata Now let us recall what Yuan-Chwang says The pilgrim came to the country of Samatata going 1,200 or 1,300 ls south of Kamarapa Taking 5 li to 1 mile, 1,200-1,300 li represent about 250 miles country of Samatata was about 3,000 le (1e 600 miles) in circuit and bordered on the great sea. Now, if we look sound for the country which The land lay low and was regularly cultivated must satisfy all these conditions and at the same time must include the Brahmanbaria Subdivision of the Tippera district, in which the village of Bilakenduai is situated, and if we remember that natural barriers such as mountains and rivers marked off one kingdom from another in those days, we cannot but accept the plain tract of land bounded by the Garo and the Khası Hills and the hills of Tippera on the north and cast, by the Lauhitya, or the old Brahmaputra river, on the west, and by the Bay of Bengal on the south as the ancient kingdom of Samatata. It is a perfectly natural geographical unit with neitly marked boundaries, comprising the eastern half of the present Mymensingh and Dacca districts lying east of the Brahmaputra, the greater part of Sylhet, and the whole of the Tippera and Noakhali districts The distances between countries recorded by Yuan-Chwang are, in all reasonable probability, distances between the capital towns, and the distance of 250 miles recorded by Yuan-Chwang between Kāmarūpa and Samatata is pietty accurately the distance between Gauhāti and Comiliā1 The circuit of 600 miles is also right and the tract, which is a vast plain, by any modern route borders on the great sea

¹ I am of opinion that Badkāmtā, 12 miles west of modern Comillä, was the ancient capital of Samataţa.
Vide my paper "A forgetten kingdom of East Bengul," J. A. S. B., March 1914

There has been much discussion about the situation of the countries of Shi-li-ch'a-ta-lo Kin-mo-lang-kia, etc, mentioned by Yuan-Chwang in his account of the kingdom of Samatata, but no satisfactory solution seems to have been arrived at. With our present identification of Samatata we may proceed to consider their cases also. This is what we find in Beal's edition about them.—

"troing north-east from this to the borders of the ocean, we come to the kingdom of Srikshetra (Shi-li-ch'a-ta-lo). Farther on to the south-east on the borders of the ocean, we come to the country of Kamalanka (Kia-mo-lang-kia) Still to the east is the kingdom of Dvārāpati (To-lo-po-ti) Still to the east is the country of Ishanapura (I-shang-na-pu-lo). These six countries are so hemmed in by mountains and rivers that they are inaccessible."

Now, the pilgrim says that the country of Shi-hi-ch'a-ta-lo might be reached by proceeding north-east to the borders of the ocean This anomalous statement seems to have puzzled everybody, including Beal and Watters, as the borders of the ocean are never reached by going north-east from Samatata, wherever its position might have been in eastern India, and the fact that all the original copies of the Travels available, as well as the biography of the pilgrim. give north-east as the direction, has stood in the way of emending the text to south-east studied opinion is that in spite of the unanimity of all the versions, north-cast is a manifest mistake for south-east and the apparent unanimity arises from the mistake having originated in a very early copy of the 'Records' The very qualifying phrase that the direction would lead to the borders of the ocean is sufficient for the emendation. But the emendation is confirmed by the manner in which the succeeding sentences begin. The next sentence begins thus,-"Farther on to the south-east, etc" and this would lose all force if "south-east" had not been the direction spoken of in the previous sentence. If we accept south-east and move from Comilla in that direction to the borders of the ocean, we arrive at a place called at present Chattagram (Eng Chittagong), which was anciently called Śri-Chattala, a name still frequently used Is there any reasonable objection to identifying Yuan-Chwang's Shi-li-ch'ata-lo with Śri-Chattala of the present times? It is evident that it satisfies all conditions.

The second importance of the inscription lies in the fact that it throws some light on an obscure part of the history of the Pāla kings of Bengal The Bangarh plate of Mahīpāla 12 and the Dinappur pillar inscriptions inform us that some usurpers drove Vigrahapāla from the throne and that he, after losing his kingdom, took shelter in the eastern country where water abounds (dēśē prāchi prachvrapayasi) His heroic son Mahīpāla recovered the lost kingdom of his father The two characteristics, water-abounding and eastern, agree well with the present districts which composed the ancient kingdom of Samatata, -so well that it is impossible to suggest any other country which answers equally to the description, and little room is left for doubt that the eastern country alluded to was the kingdom of Samatata new Baghaura image inscription, which is the earliest of the reign of Mahipala, finally settles all doubts on the point When we find that Samatata was under Mahīpāla so early as in the third year of his reign, we cannot but conclude that it was Samatata where Vigrahapāla took shelter, suffering reverses in war with the usurper, and leaving north Bengal in the hands of the victor The fact of the earliest inscription of Mahīpāla turning up in Samataia points to his having probably been crowned there and this was perhaps the loyal country used by him as the base of operations in his fight with the usurper for the recovery of his father's kingdom.

The flaka in the Bangarh plate which describes Vigrahapāla's sojourn in the eastern country has been copied also in the Amgāchhi plate³ of his great-grandson Vigrahapāla III, where,

¹ J A S B, Vol LXI, pp 77-87 and Gaudalekhamālā, p 91 Also Ep Ind, Vol XIV, page 224.
2 J A S B, 1911, p 615

^{*} Ind an Antiguary, Vol. XXI, pp. 97 101.

currously, it is applied to him. Mr R D Banerji, MA, in his Monograph on the Pālas of Bengal, is inclined to discredit the statements of the ślōka on this ground. When a ślōka describing some events in the history of a monarch, occurring in a copper-plate of his son, is reproduced in a copper-plate of the great-grandson of that monarch and is applied to that great-grandson, it is presumable that the former application is correct, and the latter plate is (1) either a forgery or (11) the composition of a very silly panegyrist, who was unaware of the historical significance of the ślōka and took it only as an attempt at conventional panegyrics, or (11) the repetation denotes some similar event in the life of the latter monarch.

The inscription is incised under the lotus-seat of a standing image of Nārāyana (Vishau) about 3' high, between two kneeling figures. It is in a perfect state of preservation and is legible throughout without any difficulty. The lines measure each 6" in length and the characters are \(\frac{3}{6}" \) long. The characters belong to the North-Eastern variety, specifically called the Kutila character, which gave birth to the Bengali characters of the modern days. The inscription is dated; but the date is given in regnal years. It refers itself to the reign of a king called Mahīpāla, presumably Mahīpāla I of the Pāla dynasty of Bengal, Mahīpāla II had a very short and troubled reign, terminating in the successful Kaivarta revolt. As the chronology of the Pāla kings of Bengal is still uncertain, it is difficult to give the exact year of the inscription, but it cannot be far removed from 976 A.D

The language is Sanskrit In orthography, the only point to note is the absence of the avagraha sign in punyayasō abhio (14) No distinctive mark of virāma is added to final consonants. There are numerical figures for 3, 2 and 7.

TEXT.

- 1 [सिहिरस्त] सम्बत् ३ माघदिने २० श्रीमहीपालदेवराज्ये
- 2 कीर्त्तिरियं नारायणभट्[ा]रकाख्या समतटे वि(बि)लकीन्द-
- <mark>3 कोग्रपरमवैण</mark>ावस्य विणक्षोकदत्तस्य वसुदत्तसुत-
- 4 स्य मातापित्रीरात्मनस पुष्ययभोषभिहद्वये°

TRANSLATION.

May success attend. The year three, the 27th day of Māgha In Samatata, in the kingdom of Śri Mahipāla-dēva, this meritorious work, namely (the image of) the lord Nārāyana, is of the merchant Lōkadatta, belonging to (the village of) Bilakindaka—a great devotee of Vishņu—son of Vasudatta, for the furtherance of the spiritual merit and fame of himself and parents.

3. THE KEOAR VISHNU IMAGE INSCRIPTION.

The inscription was discovered by myself in 1909. That year, in the month of June, I happened to be on a visit to the little village of Keoār, some three miles to the south-east of Rāmpāl, the famous site of the ancient capital of the Sēna kings of Bengal, in the Munshiganj Sub-division of the Dacca district. I found the image lying on its face, half buried in earth, and on turning it for inspection, I noticed the inscription. The image has now been fixed against the outside wall of the math in the same village.

The inscription is incised on the pedestal of an image of Vishnu, about 3' in height. It is in four lines, each line measuring 7", but the last line is an inch shorter, for want of plane space to write upon. The letters are about $\frac{1}{2}$ " in height and are everywhere boldly incised

¹ Memorrs, A S B, Vol V, No 3.

²Expressed by a symbol.

The second couplet has been much injured towards the end by the erosion of the stone, and the several letters could with difficulty be recognized 1

The inscription is in verse throughout, and consists of two couplets. The language is correct Sanskrit, with only a single exception, which is perhaps an engraver's mistake. The letters belong to the Kutila variety, current in Bengal in the 10th, 11th, and 12th centuries. The inscription is not dated, but paleographical considerations would not possibly allow of an earlier date than the early part of the 13th century A.D. It records the installation of an image of the lord Vishnu by one Vangöka, great-grandson of Saurisarman, grandson of Pitāmaha and the offspring of the couple Sayōga and Anuyamī

The absence of a royal name in a pretty long inscription is rather remarkable, though by no means uncomme. It may suggest that the inscription belongs to a period when there was no king worth the name to refer to at the time of the installation of the image. There is another fact which confirms this supposition. The Brahmana family to which Vangoka belonged is spoken of as hailing from some place in Varendri, i.e. north Bengal. They must have migrated to Vanga, which included the pargana of Vikramapura, the region where the image was found, not long before the installation of the statue, as the fact of their descent from a stock of Varendri was, in Vangoka's estimation, still of sufficient distinction to merit a special mention. The name Vangoka is also significant. In a family where the first three of the line are named in pure Sanskrit after the sacred names of gods, the naming of the fourth member after the name of a country signifies that he was born just after the family had migrated into that country, and the migration was an important event in the family history

The period at the end of the 12th century A.D. which necessitated the migration of Vārēndrī Brāhmaṇas from north to east Bengal must have been the time when Lakshmanasēna was worsted by Muhammad-bin-Bakhtyar, about 1200 AD, and the old kmg and his court fled to Vikramapura Muhammad established his court at Deb-kot, 14 miles south of Dinajpur, in the heart of Varēndrī, and orthodox Brāhmanas must have had a rather hot time of it, necessitating flight to the Vanga country, where the Sēnas still had sway. The history of the reign of the sons of Lakshmanasēna is very imperfectly known, but erasures of royal names on their copper-plates suggest fratricidal war and consequent anarchy, and the present inscription may well belong to this troublous period.

TEXT.

- 1 [सिहिरस्तु] चग्रसानुग्रमेथेन सयोगाङ्गभुवा विद्यु: [1]
- 2 वङ्गोकीन कतो विष्णुविष्णुसालीकाकारस्या [॥]
- 3 वरेन्द्रीतटकीयेन शाण्डित्यकुललनाना [1] पितास-
- 4 इस्य पीत्रेण प्रणप्ता भीरिश्चर्माणः ॥

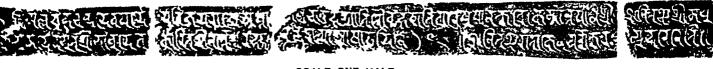
TRANSLATION.

ay success attend! Longing for a residence in the heaven of Vishnu, this (image of) the Lord Vishnu was consecrated by Vangöka, hailing from [the village of] Tataka in Varendri, offspring of the body of Bayoga and (begotten on) Anuyami, in the race of (the Saint) Sändilya, grandson of Pitamaha and great-grandson of Saurisarman.

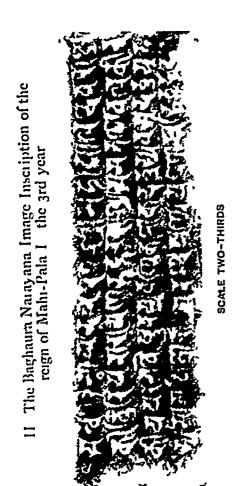
I should put it on record here that the assistance of my friend Profe Radhagovinda Basak, M.A., was of very great use to me in obtaining a correct decipherment and interpretation of the inscription.

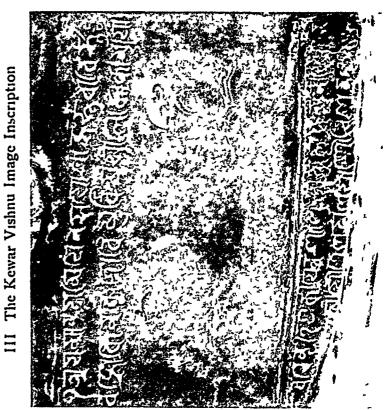
2 Expressed by a symbol.

I The Bharella Nartesvara Image Inscription of the reign of Layahachandra the 18th year

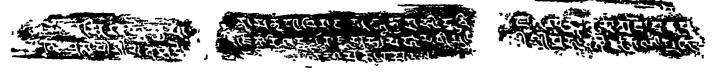


SCALE ONE-HALF





IV The Deulbadi Sarvani Image Inscription of Mahadevi Prabhavati, Queen of Deva-Khadga



SCALE FOUR-FIFTHS

V The Dacca Chandi Image Inscription of Lakshmana-Sena the 3rd year







SCALE TWO-THIRDS



4. The deulbādī sarvvānī image inscription of mahādēvī prabhā. Vatī, queen of dēva-khadga.

Deulbādī is a village situated about 14 miles south of Comilla, on the trunk road running from Comilla to Chittagong. The image with which we are dealing was found about two decades ago by one Muhammad Faqır Choudhury, when demolishing the ruins of an ancient structure standing on plot No 447 of the Settlement Map of Jammura, a mauza in which the small village of Deulbadi is included, under Police Station Chauddagrama, in the Tippera district. A fine brass statuette of the sun-god, in which the god is represented sitting inside his one-wheeled car, drawn by seven spirited horses, as well as some biass lingus, of which one was inscribed with a short votive inscription, were discovered along with the image of Sarvvani Babu Taranuth Chakrabartti, the then Sub-Inspector of Police in charge of the Chauddagrams Police Station, secured the images and placed them with one Kailas Chandra Chakrabartti of Deulbadi There the images remained for about sixteen years, until they were bought by Babu Saratchandra Chakrabartti and Babu Nibaran Chandra Chakrabartti of the village Dajdi, Police Station Chandpur, District Tippera There two brothers are the priests of a temple on the Chandimura peak of the Lalman Hills in the district of Tippera, near the Lalman Station on the Assam Bengal Railway As the image installed in the temple of Chandi had long disappeared, these two brothers were anxious to get an image of Chaudi for their temple, and they obtained the present image from a cousin of Kailas, who in the meantime had died The image was brought to Comilla along with the other images discovered, and for cleaning they were placed in the care of Babu Mahesa Chandra Bhattacharyya, a well-known Homocopathic druggist When the images were with Mahesa Babu, the inscriptions on the Sarvvanī image and on one of the lingus began to attract attention Babu Anukūlchandra Rov. Manager, Wards' Estates, Comilla, sent me an imperfect rubbing of the inscription on the image. I at once recognized that this was a new inscription of the Khadgas and wrote to Anukūl Babu to that effect With the help of Mi F C French, CSI, ICS, late Commissioner of the Dacca Division and President of the Dacca Museum Committee, I opened negotiations for the acquisition of the image for the Dacca Museum and went over to Comilla and obtained The owners of the image, after rubbings of the inscription and photographs of the image much persuasion by Rai Annadaprasad Sen Bahadur, the Additional District Magistrate, and Mr T Emerson, C.IE, ICS, the then Magistrate of Tippera, consented to part with the image on condition that a duplicate should be made for them and a sum of money given. At this Juncture the annual grant received by the Dacca Museum from the Bengal Government was reduced from Rs 6,000 to Rs 3,000 and all ideas of acquiring the image had to be abandoned. The image was taken to the temple at Chandimuiā and set up for worship I am informed that it has since been stolen from the temple and lost sight of

The image is of the goddess Sarvvānī, one of the forms of Durgā It is about 20" in height and rather heavy A portion of the rim of the top towards the proper left is broken away and lost. The image is cast in low relief. The technique is rather crude, and the pose rigid. The goddess has eight arms, holding on the proper left, from the bottom apwards, the thunderbolt, the bell, the bow and the shield, and on the proper right, from the bottom upwards, the conchshell, the goad, the sword and the wheel. Two maids are on her two sides, holding fly-whisks. She stands on a lotus-seat on the back of a couchant hon, with a rather well-executed head. The image was gilt all over with thin sheets of gold, the pious work of queen Prabhāvatī, and the original gilding is still intact in places. The white patches in the photograph show where it still clings fast.

The inscription refers itself to the reign of a king called Deva-Khadga of the Khadga line of kings, who ruled over Samatatal towards the end of the 7th century AD. The existence of the Khadga line of kings in east Bengal became known from the discovery in 1884 of two grants of Deva-Khadga, evidently the most powerful monarch of the line. These two plates were finally edited by the late Babu Gangamohan Laskar, M.A., in the Memoirs of the Asiatic Society of Bengal, Vol. I, No. 6

The inscription records the names of three generations of the Khadgas;—Khadgōdyama, the founder of the line, his son Jāta-Khadga and his son Dēva-Khadga. All these names were known from the copper-plate grants of Deva-Khadga referred to above, and it has nothing new to tell us in this respect. It informs us that Prabhavati, queen of Deva-Khadga, caused the image of Sarvvani to be covered with gold leaves out of reverence for the goddess The name of Prabhavati also was known previously, as she figures in one of the plates of Deva-Khadga as a donor of land to a Buddhist monastery The royal family of Samatata seems to have been of a particularly religious turn of mind Yuan-Chwang states that Śilabhadra, the head of the University of Nalanda, came of the royal stock of Samatata We can hardly conceive at this distance of time what an exalted position it must have been As the head of the greatest centre of Buddhist culture of the time, he must have occupied the position of the dictator of the then Buddhist world It is probable that he was a Khadga, and those who kept alive the name of Khadgas in later times tried in their way to emulate their illustrious predecessor by noble deeds of piety and benevolence Deva-Khadga was a donor of land to Buddhist monasteries, and his wife and son also followed in his footsteps, as appears from his grants Yuan-Chwang calls the king of Samatata a devout Buddhist and Dēva-Khadga seems very well to merit this appellation The pions soul of queen Prabhavati has once again spoken to posterity through the present discovery

The image reveals a curious state of religious belief prevalent in those days Queen Prabhāvati and the members of her husband's family were all devout Buddhists, but all the same she did not feel it irreligious in any way to pay reverence to a goddess who must have belonged to the Brahmanical pantheon. Harshavardhana, to whose court Yuan-Chwang came, in a similar manner divided his veneration among the Buddha, the Sun-god and Siva All these clearly show that we must revise our idea of the Buddhists and Hindus of ancient days as two communities shut up in watertight compartments. They were more like the present-day Śāktas and Vaishpavas than otherwise

Asrafpur, near the bank of the old and the real Brahmaputra, the find-place of the two plates of Déva-Khadga, and Deulbädi, sixty miles south-east, almost at the foot of the hills of Tippera, the find-place of the present image, mark respectively the western and eastern limits of Samatata, the kingdom of the Khadgas

The inscribed surface at the base of the image is about 8" in length, and the characters are approximately \footnote{t}^0 long. They are bigger in the two extreme sections than in the middle one. They are incised pretty deeply and are in an almost perfect state of preservation

The characters belong to the Eastern variety of the Gupta script current in Bengal towards the end of the 7th and the beginning of the 8th century A.D. Mr Laskar, at the time of editing the plates of Diva-Khadga, assigned them to "the 8th or 9th century A.D.", while Mr R. D. Banerji in his Bengali History of Bengal is, on paleographical grounds inclined to push the date still further forward. I believe, however, that these Khadga inscriptions cannot be taken farther than the beginning of the 8th century A.D. No one, I believe, can

¹ Fide my paper " A forgotten kingdom of East Bengal," J A S B March 1914.

Fide also Vr. Bang-ji's Monograph on "The Pales of Bengal." Memoirs, A. S. B., Vol. V, No. 8, p. 67.

compare the letters of the present inscription, as well as those of the two plates of Dēva-Khadga, with the letters of the Nidhanpur plates of Bhāskaraverman, the Aphsad and the Shahpur inscriptions of Āditya-sēna-dēva, the Deobarnark inscription of Jivita-gupta, the Banskhera and Madhuban plates of Harsha, without coming to the conclusion that a span of about a hundred years covers them all A comparison of the characters of the Khadga inscriptions with those of the calliest known inscriptions of the Pāla kings leaves no doubt that the former must be considerably prior to the latter, possibly by about a century

There is nothing special to note in the orthography, except the doubling of v after r in Sair vāni. The use of only one symbol for b and ι is almost the rule in Eastern Indian inscriptions, as in the modern Bengali language

The language is correct Sanskrit verse. The inscription is in three lines on three sections, the first two lines run over all the three sections, while the third line is incised only on the middle one.

I edit the inscription from rubbings and photographs in my possession.

TEXT.

- 1 [सिंदिरस्त]² सस्ति खंद्रीयमी नाम रुपाधिराजस्तळ्यः विकास स्वात्स्य है। विकास स्वात्स्य स्वात्स्य विकास स्वात्स्य स्वात्य स्वात्य स्वात्य स्वात्य स्वात्य स्वात्य स्वात्य स्वात्य स्वात्य स्वात्य स्वात्य स्वात्य स्य
- 2 ति: प्रताणी चोदेवखरी विजिनारिखर. ।[1¹] राज्ञस्तस्य सहादेवी सहिषी खीपसावती [1^{*}] स(प्र)र्व्वाणीप्रतिमां
- 3 भक्षा हिसलिप्तासकारयत् । * *

TRANSLATION

May success attend! May welfare accrue! There was an overload of kings, Khadgodyama by name. His son (became known) on earth (as) Jāta-Khadge. His powerful and benevolent son Dēva-Khadge was (like) a sword, a conqueror of all foes. Prabhāvatī, the queen-consoit of this king, out of acverence for Sarvvāṇi, covered her image with gold.

5. THE DACCA CHANDÍ IMAGE INSCRIPTION OF THE 3RD YEAR OF LAKSHMANA-SËNA-DËVA.

The inscription is on the pedestal of an image of Chandi, discovered about four decades ago in the ruins of Rāmpāl, the site of Śrī Vikramapura, the capital of the Sēnas referred to in their land grants, in the pargana that still goes by the same name, included at present in the Dacca and Faridpur districts. It is at present worshipped in a small temple situated in the Dālbāzār quarter of Dacca on the Farāshganj Road, a little to the east of the Northbrook Hall. The late Babu Baikunthanāth Sēn, Deputy-Inspector of Schools, of Sonārang, District Dacca, was an enthusiastic collector of images, quite a crop of which used to turn up every year in the course of casual excavations in and around Rāmpāl. These, on discovery, were usually put under a tree by a roadside to receive the chance worship of the passers-by. Sometimes they were put to altogether unholy uses and sometimes consigned again to neglect and oblivion. It does great credit to Baikuntha Babu that he alone, amidst the general callousness of his countrymen was alive to the artistic and archæological inerit of these relics of the past, and not a few of them owe their safe preservation to his labour. Many pieces of his collection are, it is gratifying to note, now in the Dacca Museum. This inscribed image of Chandi was one of Baikuntha Babu's finds, and he must have presented it to the founder of the temple in which it at present lies.

^{*} Ep Ind, Vol XII, p. 65

The inscription, however, seems to have aroused little interest at the time of the discovery, and its existence was unknown to the gentry of Dacca. In April 1911 Mr. R. D. Banerji, M.A., of the Archeological Survey, and some friends discovered it, and from that time it has been known to the public.

In August 1911 Mr Banery published a reading of this inscription in the Bhīdra, 1318 (BS), number of the Pratibhā, the journal of the Dacca Sāhitya Parishat in an article on king Lakshmana-sēna of Bengal Four months later, in the Pausha number of the same journal, in a long article on the Sēna kings of Bengal, I gave my reading of the inscription. In June 1912 I published the inscription, with a half-tone reproduction of both the inscription and the image, in the Dacca Review, in an article on the era of king Lakshmana-sēna. In J. A. S. B., July 1913 Mr Banery re-published it in his article on king Lakshmana-sēna. The inscription has thus been published four times, yet it cannot be said that up to this time it has been properly edited Mr. Banery's reading in the J. A. S. B., as well as his description of the image, is not free from mistakes.

The image is about 30° high and is a rather fine example of Bengal sculpture of the time of the Sēnas. The goddess has four arms and she stands in a graceful tribhanga pose on a full-blown lotus over a couchant hon. Her upper left hand holds a bunch consisting of a half-blown lotus with some buds and leaves. The lower left hand holds an ornamental basket-like thing, either a flower basket or a waterpot. The upper right hand holds an elephant-goad and the lower one is in the Varada-Mudrā. Two attendant female figures stand on the two sides of the goddess, and two elephants are pouring water over her from two pitchers. She seems to be a curious mixture of Gaja-Lakshmī and Chandī and may represent the Sakti of the god Harihara.

The inscription is in an excellent state of preservation. The inscribed surface is about $9\frac{1}{2}$ in length, and the characters are approximately $\frac{1}{4}$ high. The characters may be called Bengali characters of the 12th century AD. They are not very well executed and are far inferior in execution to those of the Deopara inscription of Vijaya-sēna. They may be compared in style and coarse execution to the Buddha Gayā inscription of Aśōkachalla-dēva executed in the 51st atīta-rājya year of Lakshmana-sēna-dēva (Epigraphia Indica, Vol. XII, p. 29). In this connection I may lay stress on a fact which is sometimes forgotten. Printed types have accustomed us to a standard; but in ancient times contemporary inscriptions varied as much in style as handwritings, because the inscriptions were always written with ink or lac on the surfaces to be inscribed and were then engraved by sculptors who were not always literate

The inscription refers itself to the third year of the era of king Lakshmana-sēna of the Sēna dynasty of Bengal As the era has been proved to have begun in 1119 AD, the inscription must have been incised in the year 1121 AD. It records that Adhikrita Dāmōdara, son of Māladatta, began the image of Chandi in the third year of the era of Lakshmana-sēna and that his relative (younger brother?) Nārāyana installed the image in the fourth year. The inscription is in two lines on three sections. I edit it from the original stone. The language is incorrect Sinskrit. Suta and adhikrita, which should have been in the 3rd case according to grammatical rules, are both used in the 1st case.

TEXT.

- 1 श्रीमज्ञम्य- सान्तदे(द)त्तसुत श्रिष्ठात श्रीदासीदरे-श्रीनाराग्णेन
- 2 सेनदेवस्य सं ३- ण त्रीचण्डीदेवी समारता तङ्गादकना-प्रतिष्ठितेति ४॥

Note on the reading

The decipherment of this short inscription presents some very serious difficulties. The fourth letter in what I have read as Māladetta is very curious. It bears little resemblance to any letter or compound used in the inscriptions of the time. Mr Banerji has read it as Māladet, but certainly tta it is not like any i hitherto met with in the inscriptions of the period. It has moreover no perpendicular straight stroke to the proper left, distinctive of an i of the period. The following additional objections to the reading may be advanced.—

- (1) Māladei must be a Prākrit form of Māla-dēvī, and it is not easy to understand why a Prākrit word should be used in a Sanskrit inscription
- (n) The use of only the mother's name to denote parentage is unusual in a North Indian inscription.

The letter that one would expect here is ia, reading the name as Māladēva, but the letter used does not bear the slightest resemblance to the va of the period or any of the va's used in this inscription. Then what is this letter? My reading of the letter as tta is only conjectural, based on the principle of greatest resemblance and possibility and on a surmise which I shall advance presently. [Perhaps we should read Mālā-khadga—Ed]

The second difficulty is about the reading of the name of the donor Mr. Banerji has read it as $D\bar{a}m\bar{o}dr\bar{e}na$, but \bar{e} is clearly absent from dra. We can read it at best $D\bar{a}m\bar{o}drana$, which is inadmissible. I have read it $D\bar{a}m\bar{o}dar\bar{e}na$, which is admittedly the correct form of the word. It should be noted that the \bar{a} mark of $n\bar{a}$, the letter below dra, is projected upwards to a considerable distance. I believe the engraver wrote $D\bar{a}m\bar{o}dana$ through mistake and attempted to put in re between da and $n\bar{a}$. Want of space stood in his way, and he fared very ill. The projection of \bar{a} of $n\bar{a}$ should, in my opinion, be taken for the engraver's attempt to make a small ra, and the r mark of $D\bar{a}m\bar{o}dra$ should be taken as the \bar{e} he tried to make. I have thus read $r\bar{e}$ between da and $n\bar{a}$.

The next difficult word is what I have read as tad-bhrādakanā. Mr Banerji read it as tabhrādakana, which gives no meaning whatever, and which moreover is incorrect, as na has a clear ā after it. The word must be a qualifying word of Nārāyanēna, which follows it, and consequently must be in the 3rd case. It is also expected that the word should signify some sort of relationship between the donor and the founder, whose names prove them to have been close relatives. I have therefore read the word as tad-bhrādakanā and would translate it as "by his younger brother" The word bhrādakana, again, is perplexing and new. I can suggest nothing better than that it was an irregular East-Indian compound of the two words bhrātā and kanīyān

Now, Dāmodara was evidently a high officer of the state, and we may expect to see his younger brother too in a similar position. We know from the Tarpandighi plate of Lakshmana-sēnal that one Nārāyana-datta was his minister of peace and war. Can this Nārāyaṇa-datta be the Nārāyana of the present inscription? Māla is an appellation of Vishnu, and the names Nārāyaṇa and Dāmodara are also names of Vishnu. It was evidently a Vaishṇava family and the name of the father agrees well with the names of his sons. If our conclusions, which are based on a series of surmises, are right, and if Nārāyana of the present inscription can be identified with Nārāyaṇa-datta, the minister of peace and war of Lakshmana-sēna, we may read the name of Dāmodara's father as Māladetta and emend it to Māla-datta by taking the cof de as an engraver's mistake

Mr Banerji read a visarga after iti, which is inadmissible, it should be read as 4, resembling the modern Bengali symbol for 4. It is not usual to put the two ciphers of a visarga in touch with one another as has been done in the present case

TRANSLATION.

The year 8 of the era of the illustrious Lakshmana-sēna-dēva The (image of the) goddess Chandī was begun by the Superintendent (Adhikrita) Dāmōdara, son of Māladatta and was installed by his younger brother Nārāyana (in the year) 4

No 25 -A NOTE ON THE VAKATAKA INSCRIPTION FROM GANJ

(No 4 of Vol. XVII of the Epigraphia Indica)

BY K N DIESUIT, MA, POONA

The last four paragraphs of the article on 'a Vakataka inscription from Ganj' illegible correction in the light of information available from the Poona plates of the thirteenth year of the Vākātaka queen Prabhāvatiguptā (Ante Vol XV, p 32 ff) and another grant of the 19th year of Pravarasēna (II) issued by the same queen Prabhāvatiguptā (Ind Ant Vol LIII, page 48). The characters used in the Ganj and Nachna inscriptions are later in date than those of the Poona plates of Prabhāvatiguptā. The Prithvīshēna of these inscriptions is therefore more likely to be identified with Prithvīshēna II of the Bālāghāt plates, who was the greatgrandson of Prabhāvatiguptā and not with Prithvīshēna I her father-in-law. On paleographical grounds, Prof Jouveau-Dubreuil attributes the Nachna inscriptions to the fifth century instead of the 4th and to Prithvīshēṇa II, in preference to Prithvīshēna I (Ancient History of the Deccan, page 73) The present epigraph which is almost identical with the Nachna inscriptions, can therefore also be assigned to Prithvīshēna II who must have lived in or about the last quarter of the 5th or the opening years of the sixth century A.D

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The figures refer to pages n after a figure, to footnotes, and add, to the additions on pp vii to xill. The following other abbreviations are used:—ch—chief, co—country; di.—district or division, do—ditto, dy—dynasty, E—Eastern, f—fomale, k—king; m.—male, mo=mountain, ii=river, s ii=same as, sir.—auruame, te=temple, vi=village or town, W=Western

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The fallowing other abbreviations are dised—ch = chief; co = country, di = district or division, do = ditto;

fy = dynamic, E = Partern, f = female, k = king; m = male, mo = mounta n, ri = river; s a = same as,

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